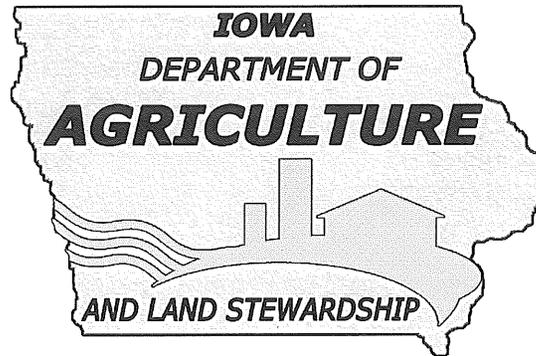


Iowa Department of Agriculture & Land Stewardship  
BILL NORTHEY, Secretary of Agriculture

STATE CLIMATOLOGIST OFFICE

# IOWA CLIMATE REVIEW

VOLUME 30, NUMBER 6  
JUNE 2016



The cooperation of the National Weather Service offices at Davenport, Johnston (Des Moines), La Crosse, Sioux Falls and Valley (Omaha) and their network of volunteer weather observers across Iowa in providing the data used in compiling this report is gratefully acknowledged.

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The climatic data used in this report are compiled from official records on file at the State Climatologist Office in Johnston. Some of these data are of a preliminary nature and are subject to change without notice. Differences may exist in data values published here and those subsequently published in the U.S. Department of Commerce report *Climatological Data Iowa* due to use of differing quality control procedures.

## IOWA MONTHLY WEATHER SUMMARY – JUNE 2016

General Summary. Iowa temperatures averaged 73.1° or 3.4° above normal while precipitation totaled 3.70 inches or 1.32 inches less than normal. This ranks as the 15<sup>th</sup> warmest and 45<sup>th</sup> driest June among 144 years of record. A warmer June was last recorded in 1991 and a drier one in 2012.

Temperatures. Warmer than normal weather was the rule through most of June. While the daily statewide average temperature was slightly below normal on seven days during the month there was not a single day when every Iowa major reporting station was cooler than normal. The warmth was most firmly established during the middle of the month with above normal temperatures throughout Iowa every day from the 9<sup>th</sup> through the 20<sup>th</sup>. Little Sioux was the hot spot with a 100° maximum on the 11<sup>th</sup>. This was Iowa's first triple-digit reading since September 10, 2013. This ended the second longest streak without 100° temperatures in Iowa at 1,004 consecutive days (record longest is 1,438 consecutive days from August 3, 1991 through July 9, 1995). The relative lack of 100 degree temperatures in recent years is tied to frequent wetter than normal summers in Iowa. The heat was most pronounced in southwestern Iowa where Little Sioux recorded 17 days with maximum temperatures of 90° or higher. On the other extreme Allison, Anamosa, Dubuque, Elkader, Fayette, Forest City, New Hampton and Osage reached or exceeded 90 only once. Belle Plaine, Elkader and Grinnell recorded the month's lowest temperature with 43° readings on the morning of the 8<sup>th</sup>.

Cooling Degree Days. Home air conditioning requirements, as estimated by cooling degree day totals, averaged 59% greater than last June and 48% more than normal. Thus far this air conditioning

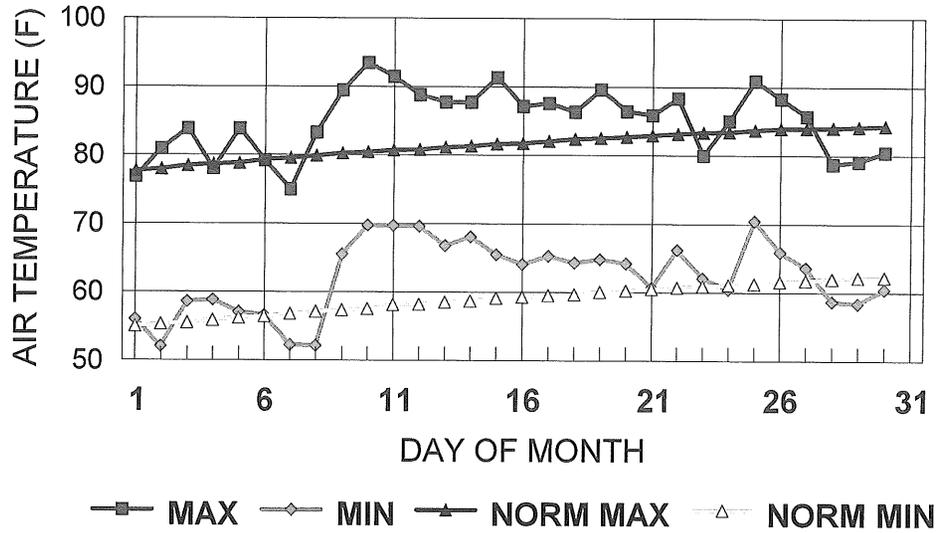
season cooling degree day totals are running 57% greater than last year at this time and 39% greater than normal.

Precipitation. June rain amounts were highly variable across Iowa. Rainfall was much more frequent and came in greater amounts over about the northeast one-third of the state where monthly totals were as much as twice the June normal. Cedar Falls reported the most rain with 11.22 inches while Salem in Henry County recorded only 0.25 inches. At Donnellson in Lee County their June rain total of 0.53 inches is second only to 1991's 0.45 inch total among 75 years of records. At month's end a large portion of south central and southeast Iowa was classified in 'moderate drought' by the U. S. Drought Monitor with an 'abnormally dry' designation for much of west central, central and southwest Iowa.

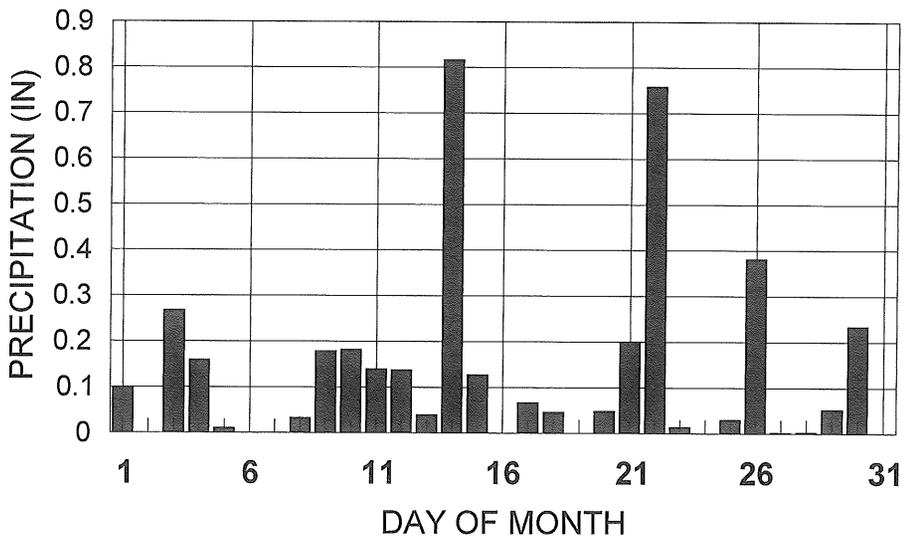
Severe Weather. As has been the case all year, severe weather was not as frequent or as widespread as typical across Iowa in June. The most widespread event generated severe storm reports, mostly high winds, from 15 central and northern Iowa counties on the evening of the 14<sup>th</sup>. However, the most damaging storms hit northwestern Iowa where a combination of hail and high winds resulted in considerable crop damage on the evening of the 17<sup>th</sup>.

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### IOWA DAILY MAX & MIN TEMPERATURES JUNE 2016 (SELECTED STATIONS)



### IOWA AVERAGE DAILY PRECIPITATION JUNE 2016 (SELECTED STATIONS)



JUNE 2016	DAY OF MONTH																															IOWA CLIMATE REVIEW	
AIRPORT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<b>PRELIMINARY AVERAGE DAILY DEW POINT TEMPERATURE</b>																																	
Ames	52	52	57	56	51	45	46	54	61	66	69	69	67	69	68	65	65	63	63	60	59	68	59	63	70	68	61	58	61	63		AVG	60.9
Burlington	60	56	59	60	56	49	45	51	61	65	70	67	64	71	70	66	63	57	65	70	65	72	67	66	71	68	63	59	58	63		62.6	
Cedar Rapids	58	52	57	61	58	50	46	52	65	68	71	64	64	71	71	66	65	61	64	64	59	71	65	66	73	71	65	59	59	65		62.7	
Davenport	58	51	54	58	55	47	46	46	61	65	67	56	60	69	70	64	61	57	62	65	57	68	65	62	70	68	64	57	55	61		60.0	
Des Moines	51	54	58	56	53	47	46	55	61	66	69	70	69	70	67	66	65	62	62	64	63	70	59	65	70	66	61	59	61	64		61.6	
Dubuque	58	52	55	58	55	50	47	47	61	66	69	53	59	68	68	62	61	58	61	61	54	66	63	62	70	67	61	54	61	60		59.3	
Estherville	49	48	56	55	50	47	44	51	61	64	70	67	68	68	64	63	65	65	65	53	53	65	57	63	69	56	58	56	61	58		59.0	
Iowa City	58	53	56	60	56	48	45	51	62	65	68	61	62	70	69	64	63	58	62	62	56	70	64	64	71	68	63	57	57	63		60.9	
Lamoni	55	55	60	58	56	51	50	56	62	66	69	68	69	70	64	69	67	61	61	67	70	71	61	67	71	68	66	61	62	65		63.2	
Marshalltown	53	52	56	58	53	47	44	52	62	66	71	69	67	70	68	65	65	62	63	60	58	70	61	64	70	68	63	59	61	63		61.3	
Mason City	51	49	56	56	50	46	43	51	64	65	70	66	66	67	65	62	64	63	62	56	53	67	57	63	69	59	59	55	58	60		59.1	
Moline, IL	58	52	54	59	55	48	46	47	61	64	69	55	59	69	70	63	61	57	62	64	56	68	65	62	70	67	63	56	55	61		59.9	
Omaha, NE	50	53	56	56	52	51	50	58	63	67	68	68	69	69	64	69	70	65	67	64	69	67	60	67	70	64	66	59	65	65		62.7	
Ottumwa	56	55	56	58	56	49	48	53	62	66	69	69	67	70	67	64	63	58	62	67	63	72	62	67	74	72	63	57	58	62		62.2	
Sioux City	49	52	55	55	52	49	49	56	64	67	69	68	67	68	66	67	69	67	70	59	63	64	58	65	68	60	59	59	64	61		61.3	
Sioux Falls, SD	46	50	56	54	48	46	45	53	61	66	66	66	66	65	60	64	68	63	69	52	54	61	56	64	65	53	57	56	62	58		58.3	
Spencer	48	49	55	55	49	46	44	52	61	64	69	66	67	67	64	63	65	65	66	54	54	65	57	62	68	56	58	55	62	57		58.8	
Waterloo	53	49	54	58	53	48	45	50	64	65	69	63	62	67	66	63	65	60	61	58	55	68	59	63	69	65	61	55	57	61		59.5	
<b>PRELIMINARY AVERAGE DAILY WIND SPEED (MPH)</b>																																	
Ames	8.9	4.3	10.8	12.5	13.2	15.3	7.4	7.8	13.5	14.2	12.6	7.4	7.4	7.7	7.7	7.2	8.9	4.9	8.3	8.7	5.4	10.8	11.4	6.7	10.4	6.8	7.6	5.7	5.4	6.8		8.9	
Burlington	5.2	4.6	7.1	7.9	10.6	11.3	8.6	5.1	9.8	11.0	5.3	6.4	5.3	8.1	7.0	8.5	7.4	5.2	6.8	8.3	3.9	11.8	9.0	5.7	10.4	5.3	6.9	9.4	2.7	7.4		7.4	
Cedar Rapids	7.8	6.7	10.5	10.3	13.2	14.5	9.2	5.3	8.5	11.6	7.2	8.9	6.0	7.4	8.6	8.4	6.9	4.5	8.5	10.2	5.0	9.7	10.8	6.5	10.6	7.7	9.1	6.9	2.8	6.1		8.3	
Davenport	7.8	7.2	9.7	8.1	14.6	14.3	9.6	4.7	11.0	11.4	5.2	9.6	5.4	9.7	8.8	8.7	8.3	6.2	7.8	10.1	6.1	10.3	7.7	4.9	11.2	7.1	7.8	8.2	1.9	5.2		8.3	
Des Moines	7.0	5.0	11.6	11.2	11.5	13.0	6.3	8.7	13.6	12.6	11.6	7.8	7.7	11.2	7.3	7.4	9.4	7.3	11.2	8.6	6.5	10.4	10.7	8.9	12.5	6.7	5.9	7.2	7.5	6.3		9.1	
Dubuque	7.9	7.5	10.1	8.2	12.8	12.3	9.3	4.9	9.0	11.9	6.8	8.5	6.9	10.3	10.1	10.6	5.9	5.6	8.8	10.6	6.2	9.5	8.5	6.1	13.3	8.3	10.4	7.2	3.3	6.9		8.6	
Estherville	15.0	8.0	9.2	15.1	17.2	18.0	6.7	12.5	12.8	13.3	9.2	12.6	8.7	10.1	11.0	10.2	16.7	6.0	15.2	11.5	5.4	11.1	10.7	11.7	14.8	10.1	9.5	4.8	7.5	10.3		11.2	
Iowa City	7.3	4.0	8.1	8.2	11.6	12.0	8.7	4.3	8.0	8.1	6.5	7.4	4.7	7.3	7.5	8.2	7.1	4.0	5.7	8.6	4.6	9.2	10.3	6.5	8.9	6.0	8.1	7.5	3.3	6.5		7.3	
Lamoni	6.9	4.3	9.4	10.6	11.6	12.1	6.6	8.4	12.9	12.3	8.5	7.0	5.7	9.8	7.9	4.7	6.7	5.5	10.5	9.0	5.2	11.6	8.1	7.3	12.2	4.9	5.3	6.2	6.3	5.4		8.1	
Marshalltown	8.8	5.4	13.9	13.4	14.3	14.8	10.7	8.1	12.0	15.8	10.9	9.9	7.1	10.1	8.8	8.1	9.0	5.6	10.1	9.9	4.6	11.5	11.3	7.8	13.1	6.6	7.6	5.8	6.4	8.1		9.7	
Mason City	12.5	6.4	11.0	12.6	15.0	16.8	9.9	6.9	13.2	16.4	10.0	12.3	7.9	10.3	11.7	8.9	9.5	6.3	13.1	11.5	5.6	8.5	11.6	9.9	14.3	8.9	10.6	3.8	5.8	7.5		10.3	
Moline, IL	5.0	4.1	6.5	8.1	13.4	12.5	8.0	3.0	8.2	8.8	5.2	9.2	5.4	7.5	6.9	9.2	7.5	5.5	6.5	10.0	5.5	10.0	9.2	3.8	9.4	5.8	7.5	7.3	2.3	4.2		7.2	
Omaha, NE	7.2	6.1	11.7	11.6	8.2	8.7	5.1	13.0	15.5	13.5	11.8	10.8	7.3	9.7	6.1	8.3	11.9	10.3	13.5	7.6	8.7	10.1	6.2	14.6	12.6	5.6	7.2	5.0	9.7	8.0		9.5	
Ottumwa	5.8	4.2	11.3	10.2	11.5	13.5	8.5	6.5	11.5	11.3	7.9	6.9	6.1	8.7	7.4	7.1	8.7	6.1	8.3	8.7	6.3	11.5	10.3	5.8	10.3	4.6	7.4	7.6	5.3	8.0		8.2	
Sioux City	9.6	7.5	12.2	12.9	10.1	13.7	4.3	12.2	11.9	12.7	9.9	10.2	7.6	7.4	5.7	10.9	14.7	6.5	12.6	7.5	8.9	13.1	7.5	13.3	12.2	4.9	6.2	3.7	6.6	8.1		9.5	
Sioux Falls, SD	13.5	5.6	6.9	13.8	12.2	13.9	4.0	12.7	9.2	8.2	8.1	10.0	7.9	8.9	8.1	12.9	17.3	9.2	15.9	8.3	8.2	12.7	7.0	15.8	11.5	6.0	7.3	4.1	7.3	9.0		9.9	
Spencer	13.5	5.3	8.4	13.5	15.5	15.9	6.6	11.3	12.5	16.9	7.1	10.9	7.5	8.0	9.5	9.6	16.0	5.6	14.7	10.0	5.7	12.2	9.9	11.1	13.6	8.3	7.4	4.8	8.1	10.2		10.3	
Waterloo	7.2	4.9	10.7	9.4	12.0	11.5	9.1	6.3	11.1	12.8	8.1	10.8	7.8	8.0	8.6	8.9	7.2	5.4	10.4	9.8	4.3	9.4	11.8	7.2	12.6	8.1	8.7	6.1	3.9	7.5		8.7	
<b>PRELIMINARY MAXIMUM 5-SECOND WIND GUST (MPH)</b>																																	
Ames	24	16	36	36	31	41	26	22	32	33	35	28	36	44	22	20	21	15	27	24	15	36	25	20	31	29	22	17	21	41		44	
Burlington	16	19	22	22	26	32	30	18	27	27	20	24	23	36	21	20	17	20	22	25	15	45	24	15	23	19	19	21	13	23		45	
Cedar Rapids	25	25	31	40	33	39	29	17	23	34	37	25	23	40	23	18	18	14	25	29	17	29	26	15	24	36	20	20	12	18		40	
Davenport	24	22	24	29	33	42	25	17	31	31	25	26	22	35	24	19	17	18	22	26	21	31	23	15	23	30	20	19	12	19		42	
Des Moines	23	16	29	33	26	38	21	23	34	31	31	23	19	32	19	16	21	19	26	22	20	31	25	21	35	25	16	18	19	42		42	
Dubuque	25	24	28	31	33	34	25	16	26	34	37	29	20	44	25	26	15	16	23	24	25	33	22	16	26	27	28	27	14	19		44	
Estherville	32	15	37	37	47	39	20	32	29	76	22	33	25	73	30	26	59	22	35	27	29	42	24	26	36	26	23	16	18	30		76	
Iowa City	23	19	28	28	29	39	27	15	24	32	49	27	18	40	22	18	18	14	22	27	17	37	28	17	23	24	22	19	13	17		49	
Lamoni	19	15	32	29	22	31	22	24	33	26	24	17	17	26	22	14	17	19	26	32	19	29	21	20	32	43	22	17	16	36		43	
Marshalltown	26	18	36	32	36	42	27	21	26	64	61	42	37	41	22	21	24	14	26	24	16	43	25	19	36	25	29	17	15	40		64	
Mason City	32	25	29	34	42	39	28	21	26	43	30	30	26	41	27	22	23	16	31	29	23	30	25	21	36								



JUNE 2016	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																								IOWA CLIMATE REVIEW							
	TEMPERATURE (F)																PRECIPITATION (Inches)				SNOWFALL (Inches)											
	AVERAGE				DEPARTURE				NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS				NUMBER OF DAYS				SNOWFALL							
	AVG	AVG	MEAN	DEP	EXT	EXT	EXT	EXT	MAX	MAX	MIN	MIN	JUN	JUN	15-16	NORM	JUN	JUN	2016	NORM	DEP	EXT	DEP	EXT	0.01+	0.10+	1.00+	TOTAL	MAX	ON	DAY	
STATION	MAX	MIN	MEAN	NORM	MAX	DAY	MIN	DAY	90+	32-	32-	0-	2016	NORM	SEAS	SEAS	2016	NORM	SEAS	SEAS	TOTAL	NORM	DAY	DAY	0.01+	0.10+	1.00+	TOTAL	GND	DAY		
Dubuque Lock & Dam 11	82.0	61.2	71.6	0.7	93	11	53	8	4	0	0	0	5	24	6020	6782	211	199	286	252	7.55	2.60	3.88	15	14	9	2	0.0	0			
Dubuque Airport	80.6	59.5	70.1	1.8	90	10	45	8	1	0	0	0	13	40	6144	7087	174	139	225	176	7.29	2.89	3.50	14	11	10	2	0.0	0			
Elkader 6 SSW	80.2	55.7	68.0	0.2	92	11	43	8	1	0	0	0	32	48	6799	7409	127	132	162	168	5.71	0.13	2.30	15	12	9	1	0.0	0			
Fayette	81.3	58.7	70.0	2.4	93	11	48	8	1	0	0	0	15	50	6537	7622	174	127	224	158	6.42	1.41	2.00	15	11	8	2	0.0	0			
Guttenberg L & D 10	82.1	62.0	72.1	1.8	95	10	50	8	5	0	0	0	3	26	5663	6717	220	185	303	241	7.18	2.28	3.27	15	12	9	2	0.0	0			
Ionia 2 W																					7.75		2.42	15	11	8	2	0.0	0			
Manchester #2	81.0	58.2	69.6	1.7	91	11	45	8	2	0	0	0	18	46	6480	7452	164	133	210	166	6.71	1.54	2.64	15	11	10	2	0.0	0			
New Hampton	80.1	58.4	69.3	2.0	93	11	49	8	1	0	0	0	19	50	6891	7860	152	119	193	145	7.89	2.40	2.72	15	10	9	3	0.0	0			
Oelwein 1 E	82.3	59.7	71.0	2.7	94	12	51	7	3	0	0	0	7	27	6488	7484	196	126	256	155	5.90	0.98	1.52	15	11	10	2	0.0	0			
Postville	80.4	58.6	69.5		93	11	48	2	2	0	0	0	18		6641		161		211		7.48	2.54	3.15	15	13	9	2	0.0	0			
Stanley 4 W	81.6	59.0	70.3		94	11	46	8	3	0	0	0	18		6607		182		235		4.87		1.80	15	11	10	1	0.0	0			
Strawberry Point																					5.96		2.94	15	12	10	1	0.0	0			
Tripoli	82.8	60.0	71.4	2.9	95	11	50	8	4	0	0	0	7	40	6425	7514	210	147	273	182	6.88	1.51	1.53	15	10	8	4	0.0	0			
Waterloo Airport	83.4	60.5	72.0	2.0	95	10	46	8	5	0	0	0	4	26	6135	7028	217	177	280	233	8.97	3.99	2.91	22	12	10	4	0.0	0			
WEST CENTRAL DIVISION																																
Audubon	84.7	60.6	72.7	3.5	92	16	49	2	7	0	0	0	3	32	6271	7080	242	158	269	202	2.33	-2.64	1.25	14	6	3	1	0.0	0			
Battle Creek 3 NE	86.5	60.8	73.7		96	12	47	3	9	0	0	0	4		6368		270		316		3.01		1.94	30	4	4	1	0.0	0			
Carroll	86.8	62.8	74.8	5.0	96	11	51	2	11	0	0	0	1	30	6139	7087	305	174	354	227	4.54	-0.45	3.83	30	5	2	1	0.0	0			
Castana Exp. Farm	85.4	62.9	74.2	4.7	94	12	53	7	10	0	0	0	0	29	5992	6992	282	165	320	212	1.84	-3.16	0.74	15	7	5	0	0.0	0			
Denison	85.6	62.0	73.8	2.9	95	12	53	8	9	0	0	0	6	23	6294	6681	278	200	315	267	1.30	-3.57	0.50	30	3	3	0	0.0	0			
Guthrie Center	87.6	62.2	74.9	5.2	96	13	49	2	14	0	0	0	3	32	5961	6898	308	173	367	230	0.98	-4.18	0.77	30	4	2	0	0.0	0			
Holly Springs 1 NW																					2.21		1.15	15	6	4	1	0.0	0			
Holstein	84.7	63.1	73.9		96	11	50	7	6	0	0	0	5		6380		279		315		1.54	-3.71	0.90	15	7	3	0	0.0	0			
Little Sioux 2 NW	89.4	60.6	75.0		100	12	47	7	17	0	0	0	7		6037		315		363		1.93		0.71	4	9	5	0	0.0	0			
Logan	88.3	63.3	75.8	4.9	97	17	50	8	15	0	0	0	1	25	5703	6733	334	201	384	267	1.10	-3.92	0.58	21	4	3	0	0.0	0			
Mapleton #2	86.0	61.4	73.7	3.9	96	12	48	2	10	0	0	0	8	28	6260	7087	277	172	312	223	1.19	-3.52	0.63	15	5	5	0	0.0	0			
Rockwell City	84.8	62.1	73.5	4.2	96	11	52	7	7	0	0	0	1	31	6180	7308	263	159	310	203	1.75	-3.10	1.27	15	5	3	1	0.0	0			
Sac City	84.3	61.5	72.9	4.6	94	13	50	3	5	0	0	0	6	42	6502	7480	247	141	284	178	1.96	-3.31	1.00	15	5	3	1	0.0	0			
Sioux City Airport	88.2	63.5	75.9	5.6	95	17	50	7	14	0	0	0	0	27	5656	6863	333	188	385	252	1.38	-2.51	0.72	14	8	3	0	0.0	0			
CENTRAL DIVISION																																
Ames Airport	86.5	62.0	74.3	4.3	95	11	50	8	9	0	0	0	0	24	5834	6831	287	174	335	223	1.71		0.78	13	7	4	0	0.0	0			
Ames 8 WSW	85.9	63.4	74.7	4.0	94	11	54	7	8	0	0	0	0	20	5644	6554	299	191	373	258	0.96	-4.00	0.46	4	6	2	0	0.0	0			
Ames 5 SE	85.3	60.3	72.8	3.4	94	12	50	8	10	0	0	0	5	31	6065	6963	246	164	285	209	2.28	-2.95	1.18	26	9	5	1	0.0	0			
Ankeny	85.4	63.0	74.2	3.2	93	26	51	8	7	0	0	0	2	21	5830	6587	285	199	345	263	3.12	-1.98	0.88	11	8	7	0	0.0	0			
Boone	85.1	60.1	72.6	3.9	93	12	47	2	8	0	0	0	8	37	6097	7047	246	150	288	195	1.79	-3.65	0.72	1	9	6	0	0.0	0			
Brooklyn																					3.15	-1.58	1.10	26	8	8	1	0.0	0			
Clutier																					5.54	-0.16	1.62	22	10	7	2	0.0	0			
Des Moines Airport	88.1	66.5	77.3	5.5	96	15	56	2	13	0	0	0	0	17	5006	6202	378	221	471	297	1.47	-3.47	0.36	14	9	5	0	0.0	0			
Des Moines Camp Dodge	85.9	64.6	75.3	4.8	92	22	54	2	8	0	0	0	0	21	5472	6456	316	187	384	251	2.93	-2.37	1.13	14	10	8	1	0.0	0			
Eldora	84.4	60.5	72.5	3.4	94	12	50	8	5	0	0	0	6	36	6382	7290	237	157	289	200	5.65	0.38	1.55	4	9	8	2	0.0	0			
Fort Dodge 5 NNW	82.6	60.6	71.6	2.2	93	11	50	2	4	0	0	0	8	32	6482	7297	214	165	245	213	4.10	-1.46	2.79	14	6	5	1	0.0	0			
Gilman																					5.04	-0.06	1.30	11	9	8	3	0.0	0			
Grinnell 3 SW	83.5	58.7	71.1	3.0	91	11	43	8	3	0	0	0	10	45	6197	7132	201	138	238	173	3.54	-1.30	1.50	11	10	5	1	0.0	0			
Grundy Center	83.4	60.6	72.0	2.9	93	11	49	8	4	0	0	0	5	34	6281	7295	224	157	281	199	8.88	3.62	2.20	26	8	8	5	0.0	0			
Iowa Falls	83.3	59.3	71.3	2.4	92	12	48	8	3	0	0	0	8	33	6510	7355	205	151	246	191	6.63	1.12	2.35	4	10	7	2	0.0	0			
Marshalltown	84.8	60.8	72.8	3.3	93	12	47	8	6	0	0	0	7	33	6044	7109	251	166	307	212	5.48	-0.09	2.00	26	10	6	2	0.0	0			
Marshalltown Airport	85.1	60.7	72.9	3.4	94	10	49	8	7	0	0	0	2	28	5932	7012	248	163	309	213	3.81		1.14	11	11	5	1	0.0	0			



JUNE 2016	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																				IOWA CLIMATE REVIEW									
	TEMPERATURE (F)													PRECIPITATION (Inches)						SNOWFALL (Inches)										
	AVERAGE				DEPARTURE				NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS				NUMBER OF DAYS			SNOWFALL						
STATION	AVG MAX	AVG MIN	MEAN	DEP NORM	EXT MAX	EXT DAY	EXT MIN	EXT DAY	MAX 90+	MAX 32-	MIN 32-	MIN 0-	JUN 2016	JUN NORM	15-16 SEAS	NORM SEAS	JUN 2016	JUN NORM	2016 SEAS	NORM SEAS	TOTAL	DEP NORM	EXT DAY	DAY	0.01+	0.10+	1.00+	TOTAL	MAX ON GND	DAY
Chariton 1 E	85.6	59.9	72.8	3.8	96	16	46	2	8	0	0	0	6	37	5876	6695	246	157	293	197	1.45	-3.56	0.73	22	6	4	0	0.0	0	
Creston 2 SW	85.5	63.1	74.3	4.3	96	16	55	8	9	0	0	0	0	26	5720	6681	286	175	330	224	1.71	-2.79	0.61	26	5	4	0	0.0	0	
Indianola 4 W	86.2	62.2	74.2	4.3	94	16	51	2	8	0	0	0	2	28	5659	6527	285	175	351	230	2.38	-2.71	1.17	11	7	5	1	0.0	0	
Knoxville	86.0	63.7	74.9	4.0	96	16	55	8	10	0	0	0	0	21	5511	6376	304	197	370	260	1.28	-3.69	0.44	15	6	5	0	0.0	0	
Lamoni	88.7	65.4	77.1	5.5	99	16	56	7	16	0	0	0	0	18	5148	6193	369	216	442	283	1.61	-3.60	0.88	4	5	4	0	0.0	0	
Lamoni Airport	86.0	64.4	75.2	4.4	97	15	54	7	9	0	0	0	0	19	4985	6079	314	193	362	247	1.72		0.86	3	6	5	0	0.0	0	
Lorimor																					1.00	-3.56	0.40	4	3	3	0	0.0	0	
Mount Ayr	84.9	62.2	73.6	4.2	96	16	52	8	5	0	0	0	2	31	5598	6498	265	161	299	203	1.74	-3.38	0.73	26	4	4	0	0.0	0	
Osceola	87.5	62.2	74.9	4.6	98	16	50	2	13	0	0	0	1	24	5582	6516	304	183	365	233	2.83	-1.78	1.35	12	6	6	1	0.0	0	
Pella 1 S																					1.52	-3.21	0.54	15	8	5	0	0.0	0	
Rathbun Dam	85.5	63.4	74.5	3.7	97	16	53	8	8	0	0	0	1	21	5404	6245	292	195	353	256	2.25	-2.72	1.17	22	6	4	1	0.0	0	
Winterset 1 S	84.8	61.7	73.3	3.8	94	16	51	2	5	0	0	0	1	29		6709	257	164	305	214	2.07	-2.70	0.86	1	7	5	0	0.0	0	
SOUTHEAST DIVISION																														
Bloomfield 1 WNW														20		6169		195		254	0.77	-4.24	0.35	4	3	2	0	0.0	0	
Brighton																					1.89	-2.54	0.71	22	8	4	0	0.0	0	
Burlington Airport	86.4	63.9	75.2	1.9	95	15	50	8	11	0	0	0	0	13	4996	5600	311	260	410	363	1.06	-3.41	0.53	30	7	3	0	0.0	0	
Donnellson	89.0	63.7	76.4		98	16	52	8	15	0	0	0	0		5008		348		449		0.53	-4.18	0.27	13	5	2	0	0.0	0	
Fairfield	86.3	63.1	74.7	2.7	97	16	49	8	12	0	0	0	3	15	5309	5828	302	226	382	314	1.17	-3.42	0.48	1	7	5	0	0.0	0	
Fort Madison	85.0	63.5	74.3	1.3	94	15	51	8	8	0	0	0	0	12		5588	284	252	366	340	0.55	-4.09	0.40	30	4	2	0	0.0	0	
Keokuk Lock & Dam 19	87.0	65.1	76.1	3.6	97	16	54	9	11	0	0	0	0	16	4903	5723	339	239	434	323	1.37	-3.46	0.75	1	7	4	0	0.0	0	
Keosauqua	87.5	62.4	75.0		97	16	50	8	15	0	0	0	2	17	5233	5851	309	219	385	303	1.08	-3.97	0.80	22	3	3	0	0.0	0	
Mount Pleasant 1 SSW	86.5	61.7	74.1	2.4	98	16	47	8	14	0	0	0	4	17	5501	5845	287	218	355	302	0.46	-4.28	0.16	21	5	3	0	0.0	0	
Oskaloosa	86.3	62.5	74.4	4.3	96	16	51	8	6	0	0	0	1	25	5521	6623	288	177	358	228	1.17	-3.77	0.42	4	6	4	0	0.0	0	
Ottumwa Airport	85.9	61.9	73.9	2.9	97	15	50	8	8	0	0	0	1	21	5317	6318	274	201	345	265	2.58	-2.51	1.19	21	7	3	1	0.0	0	
Salem 1 S																					0.25		0.11	1	4	1	0	0.0	0	
Sigourney														27		6570		179		234										
Wapello																					5.31		3.30	22	7	6	1	0.0	0	
Washington	86.7	60.7	73.7	3.2	96	16	47	8	13	0	0	0	3	24	5557	6553	270	187	333	245	2.02	-2.68	0.87	1	8	5	0	0.0	0	
SUPPLEMENTAL STATIONS																														
Moline Airport	86.7	62.9	74.8	3.3	96	15	48	8	10	0	0	0	1	19	5164	6204	302	214	404	290	3.80	-0.69	2.03	22	8	4	1	0.0	0	
Omaha Eppley AP	90.6	66.8	78.7	6.6	99	15	53	7	18	0	0	0	0	17	4927	6167	418	230	501	312	0.94	-3.24	0.28	3	7	3	0	0.0	0	
Sioux Falls WFO AP	84.1	60.6	72.4	4.6	98	11	43	2	5	0	0	0	9	51	6505	7706	235	135	268	171	1.72	-2.20	0.45	29	9	5	0	0.0	0	
DIVISIONAL AND STATE AVERAGES																														
Northwest	84.2	60.9	72.6	3.8	99	10	46	2	7	0	0	0	12	40	6567	7566	246	155	293	201	3.17	-1.56	2.70	14	7	5	1	0.0	0	
North Central	82.3	59.5	70.9	2.6	97	11	45	2	4	0	0	0	12	42	6594	7660	195	142	237	180	5.49	0.30	3.79	11	10	8	2	0.0	0	
Northeast	81.6	59.2	70.4	1.9	95	11	43	8	3	0	0	0	14	39	6407	7348	182	144	237	181	6.94	1.84	3.88	15	12	9	2	0.0	0	
West Central	86.3	62.1	74.2	4.3	100	12	47	7	10	0	0	0	3	28	6134	7012	287	175	330	229	1.93	-2.98	3.83	30	6	3	0	0.0	0	
Central	85.0	61.4	73.2	3.6	96	15	43	8	7	0	0	0	4	30	6006	6970	258	169	312	219	3.67	-1.69	2.79	14	9	6	1	0.0	0	
East Central	84.6	60.9	72.8	2.6	96	16	43	8	7	0	0	0	6	25	5735	6632	245	182	316	239	6.03	1.08	4.79	22	10	8	2	0.0	0	
Southwest	86.9	63.6	75.3	4.3	99	16	49	2	10	0	0	0	0	20	5440	6387	315	199	367	263	2.34	-2.79	3.55	21	5	4	1	0.0	0	
South Central	85.9	62.6	74.3	4.1	99	16	46	2	9	0	0	0	1	25	5498	6431	287	180	340	233	1.79	-3.15	1.65	22	5	4	0	0.0	0	
Southeast	86.7	62.9	74.8	3.3	98	16	47	8	11	0	0	0	1	19	5261	6085	301	212	382	284	1.44	-3.38	3.30	22	6	3	0	0.0	0	
State	84.8	61.4	73.1	3.4	100	12	43	8	7	0	0	0	6	30	6001	6941	255	172	310	223	3.70	-1.32	4.79	22	8	6	1	0.0	0	

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW				
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
NORTHWEST DIVISION																																		
Cherokee	8	MAX	75	73	81	80	71	85	76	77	88	93	96	97	95	87	88	90	89	92	85	92	85	88	93	81	89	89	92	86	82	82	85.9	
		MIN	52	46	55	50	52	50	48	51	63	73	71	72	72	69	62	60	66	66	66	66	66	57	63	55	59	65	58	62	55	62	62	60.3
Emmetsburg	8	MAX	75	72	80	83	71	85	72	76	86	95	98	94	95	82	86	88	87	90	87	93	83	87	88	77	83	91	90	81	81	76	84.4	
		MIN	55	48	59	56	54	59	53	53	63	72	74	73	72	67	64	58	65	68	67	67	56	64	60	58	57	62	63	57	59	61	61.5	
Estherville Airport	24	MAX	70	76	80	70	85	71	73	79	94	99	90	94	82	88	83	84	88	85	90	81	83	85	76	81	89	87	78	77	77	79	82.5	
		MIN	52	48	55	52	54	53	49	50	65	71	69	72	71	64	62	56	64	65	65	58	53	62	59	56	67	57	60	54	56	57	59.2	
Estherville 4 E	7	MAX	73	70	77	80	70	84	71	74	79	94	98	90	94	82	87	87	84	88	86	90	81	84	86	76	82	90	87	78	76	78	82.5	
		MIN	54	47	59	53	55	55	49	49	66	66	69	73	71	69	64	56	64	65	65	63	54	61	59	56	60	60	60	54	57	60	59.8	
Hawarden	7	MAX	76	74	84	71	74	85	76	79	90	96	97	98	96	82	81	90	90	95	85	91	85	86	90	80	88	90	90	85	80	82	85.5	
		MIN	54	48	52	55	55	57	49	57	61	70	74	74	70	69	64	61	63	64	69	66	57	60	57	59	64	58	59	57	58	62	60.8	
Le Mars	7	MAX	74	74	85	82	73	85	76	78	90	95	97	97	97	84	80	88	89	92	85	89	84	86	90	80	87	87	88	84	79	82	85.2	
		MIN	54	50	55	55	51	56	51	55	59	70	72	73	71	68	65	61	64	63	67	68	58	64	58	60	64	61	64	55	62	62	61.2	
Pocahontas	8	MAX	74	74	83	85	73	85	76	77	86	94	98	98	96	89	89	90	88	91	86	91	83	89	91	80	86	91	91	85	82	80	86.0	
		MIN	53	47	59	54	57	58	53	52	64	72	73	75	72	70	64	60	65	66	64	70	58	65	60	55	63	65	67	58	60	58	61.9	
Primghar	16	MAX	73	79	80	70	83	83	74	88	90	97	96	96	94	83	85	86	91	91	89	88	86	88	88	83	89	87	87	81	79	80	85.5	
		MIN	53	51	62	54	56	55	51	59	70	74	70	70	73	65	65	62	69	67	68	68	62	64	57	60	74	63	67	60	62	64	63.2	
Rock Rapids	8	MAX	73	73	82	72	68	83	73	75	89	94	96	98	96	81	81	86	89	94	88	90	82	87	86	79	87	87	88	81	78	83	84.0	
		MIN	54	48	51	57	54	57	53	53	65	72	71	74	71	67	65	60	62	65	67	64	56	59	57	60	62	57	62	57	60	63	60.8	
Sanborn	8	MAX	73	71	80	73	68	83	70	74	87	92	94	95	94	79	80	84	87	91	83	89	80	85	87	78	84	88	87	81	79	79	82.5	
		MIN	52	49	53	53	52	51	48	54	62	71	71	71	72	68	65	60	64	65	69	64	61	63	56	59	63	62	64	57	61	61	60.7	
Sheldon	7	MAX	75	72	81	70	69	84	73	75	90	93	97	95	95	79	79	84	86	93	82	90	80	86	88	77	86	89	88	81	79	79	83.2	
		MIN	54	46	48	54	55	55	50	50	60	70	70	73	72	68	64	61	63	66	68	64	57	61	57	59	62	57	61	54	59	63	60.0	
Sibley	7	MAX	73	71	81	67	69	83	71	75	88	94	96	97	95	80	80	85	85	92	83	90	82	85	86	78	85	88	87	81	80	81	82.9	
		MIN	52	46	46	55	52	53	48	48	58	67	70	71	73	68	62	59	59	63	66	63	56	56	56	58	61	60	61	57	57	61	58.7	
Sioux Center 2 SE	16	MAX	75	81	83	70	86	87	77	87	92	96	97	98	96	81	87	88	92	93	89	89	86	90	90	90	89	90	89	81	80	81	87.0	
		MIN	54	48	60	55	55	56	52	58	69	70	73	73	69	66	62	60	70	64	67	64	58	65	58	58	73	56	63	56	62	61	61.8	
Sioux Rapids 4 E	22	MAX	72	80	82	70	85	75	75	87	92	97	97	96	84	88	86	87	89	84	90	83	85	88	76	83	89	88	83	80	77	82	84.3	
		MIN	54	48	57	54	54	57	52	52	68	71	72	75	72	66	64	59	66	66	66	67	58	64	58	58	70	58	62	56	61	62	61.6	
Spencer Airport	24	MAX	72	80	80	70	85	73	75	85	93	98	95	95	83	85	85	85	89	83	91	83	86	88	77	84	90	88	82	81	79	81	84.0	
		MIN	51	46	55	54	53	52	47	52	66	71	69	73	70	66	63	58	65	65	67	62	55	63	58	58	65	58	58	54	62	55	59.7	
Spencer 1 N	24	MAX	71	81	80	69	83	71	75	86	93	97	97	95	82	87	84	86	91	84	91	83	86	87	77	84	90	90	80	80	80	80	84.0	
		MIN	55	50	56	55	54	56	52	52	68	67	69	75	71	65	63	58	65	65	69	64	56	62	60	58	72	63	63	58	60	59	61.3	
Spirit Lake 4 W	24	MAX	71	80	76	69	85	72	76	84	92	96	93	93	81	84	85	84	88	84	89	84	84	88	76	82	89	87	79	78	77	78	82.8	
		MIN	54	48	55	54	54	56	50	56	68	67	71	75	72	66	64	59	64	65	69	65	58	63	59	61	71	62	62	56	63	59	61.5	
Storm Lake	8	MAX	73	72	80	82	71	84	75	76	85	92	94	95	93	85	86	89	87	88	84	89	83	86	91	79	85	88	89	84	81	79	84.2	
		MIN	53	54	60	53	55	55	52	52	63	73	73	74	75	73	65	60	65	66	68	69	61	67	61	59	64	63	65	58	58	60	62.5	
Washta	7	MAX	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
		MIN	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																														IOWA CLIMATE REVIEW		
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
NORTH CENTRAL DIVISION																																		
Algona 3 W	6	MAX	73	73	77	87	72	86	74	75	81	94	97	93	92	82	85	85	83	86	86	90	81	82	85	75	81	89	86	79	76	76	82.7	
		MIN	53	51	51	55	55	55	51	52	57	66	71	71	67	68	63	58	59	64	63	63	58	59	59	58	59	62	62	55	55	58	59.3	
Allison	7	MAX	80	74	77	87	76	84	74	72	82	83	95	89	85	88	87	86	82	83	86	89	82	84	84	76	82	89	88	78	74	77	82.4	
		MIN	58	50	54	57	55	56	52	53	55	64	66	68	63	64	63	60	61	62	65	68	59	62	62	62	63	69	63	58	56	60	60.3	
Britt	7	MAX	75	71	76	82	72	83	70	70	79	92	95	90	92	83	86	87	84	86	85	87	82	81	85	70	81	91	90	79	76	77	81.9	
		MIN	54	45	50	57	53	55	50	51	61	64	68	68	67	70	61	61	60	64	60	67	59	61	59	59	61	61	61	56	56	58	59.2	
Charles City	22	MAX	72	75	86	75	83	72	70	81	81	94	86	80	81	84	85	78	82	84	88	80	82	81	73	80	90	87	79	72	76	77	80.5	
		MIN	56	50	56	57	55	55	52	48	63	67	65	64	61	63	61	61	60	65	62	68	54	61	61	62	68	67	63	56	54	60	59.8	
Clarion	7	MAX	76	75	81	86	74	86	75	74	84	93	95	92	92	87	88	87	85	86	85	90	82	86	87	77	82	89	90	82	78	76	84.0	
		MIN	54	50	50	56	54	56	53	52	57	66	68	70	69	67	63	59	60	64	62	68	59	58	58	58	61	64	64	55	55	57	59.6	
Dakota City	8	MAX	74	74	81	85	75	85	75	75	83	93	96	95	92	87	87	86	85	87	85	90	82	86	88	77	82	89	89	82	82	77	84.1	
		MIN	54	49	56	55	56	59	51	51	60	72	71	74	69	69	62	59	60	65	63	69	57	57	59	56	63	64	65	56	56	59	60.5	
Forest City 2 NNE	7	MAX	73	71	78	82	72	84	71	72	80	85	94	87	88	82	83	82	81	84	83	87	79	83	85	69	81	89	84	77	74	76	80.5	
		MIN	53	45	50	51	53	53	50	52	59	65	67	65	66	68	62	59	60	64	63	66	54	58	60	59	61	65	62	52	56	58	58.5	
Hampton	7	MAX	77	75	80	85	76	85	75	75	83	93	95	93	88	89	87	88	84	85	86	89	84	87	88	75	83	90	90	83	76	76	84.0	
		MIN	55	51	55	57	55	57	53	48	52	66	67	70	66	67	64	62	61	63	67	71	56	61	62	62	63	69	66	57	54	57	60.5	
Mason City	7	MAX	77	73	78	84	75	84	73	72	81	84	96	86	85	84	83	86	81	83	85	90	82	84	83	70	81	90	87	80	76	76	81.6	
		MIN	55	50	53	55	55	57	53	48	53	65	67	70	64	66	62	61	62	63	67	70	50	57	61	63	58	63	61	56	54	59	59.3	
Mason City Airport	24	MAX	73	77	86	76	85	73	72	83	86	96	89	89	84	83	85	82	84	85	90	82	84	84	70	82	91	87	80	76	78	79	82.4	
		MIN	52	48	57	53	54	55	51	46	66	68	68	67	64	61	61	58	62	66	63	58	52	62	60	62	69	66	61	54	52	56	59.1	
Northwood	7	MAX	73	68	73	M	M	M	M	M	M	M	M	M	M	M	80	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
		MIN	53	48	47	M	M	M	M	M	M	M	M	M	M	M	58	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Osage	7	MAX	76	71	75	89	75	82	71	69	80	82	94	88	81	80	84	84	79	83	84	87	80	82	81	66	81	89	86	79	73	76	80.2	
		MIN	54	49	50	56	54	56	51	50	59	64	66	67	63	65	62	63	61	64	65	67	55	60	59	60	62	65	62	56	55	59	59.3	
Swea City 4 W	7	MAX	74	71	77	82	72	85	71	75	80	94	97	91	93	85	85	84	84	88	86	90	81	84	86	74	81	90	89	78	77	78	82.7	
		MIN	54	48	50	53	54	55	51	50	54	66	68	69	69	69	64	58	59	64	64	64	54	58	59	56	60	58	60	55	55	57	58.5	
NORTHEAST DIVISION																																		
Cascade	7	MAX	78	76	76	86	79	83	76	71	79	79	92	88	73	88	88	90	78	83	85	89	87	87	84	76	82	91	86	82	72	75	82.0	
		MIN	60	53	55	62	61	57	53	48	56	56	67	68	59	63	65	64	63	61	61	67	59	59	59	59	62	71	66	59	53	57	60.1	
Cresco 1 NE	7	MAX	80	73	77	85	77	81	73	72	82	80	94	91	73	83	84	85	79	86	87	88	83	83	80	66	83	90	86	81	75	79	81.2	
		MIN	59	48	53	57	55	55	48	46	53	63	67	62	58	62	60	61	56	62	65	66	51	60	60	53	56	67	61	54	48	53	57.3	
Decorah	16	MAX	73	74	85	85	81	81	70	78	78	93	93	89	81	84	86	85	84	85	88	87	81	81	76	80	90	90	86	79	76	78	82.6	
		MIN	61	48	53	60	56	53	48	45	61	65	66	56	59	66	63	63	57	62	60	68	50	63	60	56	66	68	60	57	50	55	58.5	
Dubuque Lock & Dam 11	6	MAX	74	78	75	88	79	81	75	70	78	78	93	88	73	88	87	90	77	87	89	90	86	82	81	77	85	92	88	83	69	80	82.0	
		MIN	61	58	58	58	61	59	57	53	55	55	66	67	67	59	65	65	62	61	65	68	59	60	65	61	61	70	69	60	56	56	61.2	
Dubuque Airport	24	MAX	76	74	83	78	80	76	69	78	74	90	88	78	87	86	89	77	82	83	86	86	82	79	77	81	89	87	84	70	74	75	80.6	
		MIN	58	53	57	61	56	53	51	45	60	66	67	61	58	65	64	64	61	61	62	61	57	64	61	58	67	66	65	53	53	56	59.5	

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW			
STATION	OBS TIME	DAY OF MONTH																								AVG							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		25	26	27	28	29	30	31
Elkader 6 SSW	7	MAX	80	74	74	85	78	82	73	69	80	76	92	89	71	88	83	86	78	82	85	88	82	81	79	70	80	89	85	80	72	75	80.2
		MIN	58	47	50	55	55	50	47	43	48	61	66	64	57	61	59	60	55	58	56	64	49	55	61	55	57	69	61	53	47	51	55.7
Fayette	7	MAX	80	74	76	86	78	83	74	71	81	79	93	89	76	88	83	87	80	84	86	88	82	83	80	70	81	89	87	81	74	77	81.3
		MIN	61	51	51	61	57	56	52	48	51	62	67	70	60	61	61	62	60	62	63	65	55	57	62	56	59	70	63	56	50	52	58.7
Guttenberg L & D 10	24	MAX	76	76	87	80	83	75	70	79	78	95	93	79	86	85	90	77	84	85	90	86	84	80	73	83	91	88	82	72	77	78	82.1
		MIN	60	55	55	62	60	59	54	50	64	66	67	59	63	65	64	66	64	65	64	69	58	65	65	61	68	71	68	60	55	59	62.0
Manchester #2	7	MAX	80	75	75	84	78	82	75	70	80	78	91	90	75	88	86	88	77	83	84	87	84	83	81	72	81	89	86	81	71	76	81.0
		MIN	58	50	52	61	59	54	51	45	51	61	66	63	60	62	62	62	59	59	58	70	52	58	64	56	59	71	63	56	49	56	58.2
New Hampton	8	MAX	78	71	74	86	77	81	71	69	80	80	93	86	79	81	85	84	78	83	87	87	79	82	80	67	80	88	88	78	75	75	80.1
		MIN	57	49	56	58	54	54	50	49	56	62	66	66	60	63	62	60	59	61	61	67	54	57	60	55	58	68	62	55	54	58	58.4
Oelwein 1 E	7	MAX	81	75	76	87	78	83	77	72	81	80	94	94	79	89	87	88	81	83	86	88	84	83	82	72	82	91	86	82	73	75	82.3
		MIN	61	52	56	61	56	56	51	52	56	65	67	67	60	64	62	61	61	60	64	67	57	62	62	56	59	66	64	56	54	57	59.7
Postville	7	MAX	80	73	75	85	76	81	77	71	79	77	93	90	72	84	83	86	78	84	85	88	82	82	78	67	80	89	85	80	74	78	80.4
		MIN	60	48	56	60	56	59	49	50	55	62	67	65	55	60	65	58	60	63	64	69	55	60	61	54	57	69	62	54	50	56	58.6
Stanley 4 W	7	MAX	81	74	76	86	78	80	74	70	82	80	94	90	79	90	82	87	79	83	86	89	84	82	82	72	82	89	86	82	72	77	81.6
		MIN	60	50	56	61	57	52	51	46	54	62	66	69	61	61	61	61	61	62	59	69	52	61	62	56	60	69	63	62	48	57	59.0
Tripoli	7	MAX	80	74	78	87	79	84	75	73	83	83	95	90	82	89	86	88	80	85	87	90	83	85	83	71	83	91	88	82	74	77	82.8
		MIN	58	52	55	60	56	56	52	50	57	64	66	70	63	65	65	61	61	63	65	65	56	62	62	58	58	71	63	57	53	57	60.0
Waterloo Airport	24	MAX	76	78	86	78	85	77	73	82	84	95	92	85	90	86	90	83	84	87	89	85	85	85	74	82	91	87	82	75	77	78	83.4
		MIN	55	50	58	60	57	54	52	46	64	66	66	67	64	67	63	62	62	65	61	60	57	62	63	59	71	71	62	57	53	60	60.5
WEST CENTRAL DIVISION																																	
Audubon	8	MAX	76	75	81	82	76	85	79	76	84	90	91	91	91	90	86	92	89	89	86	88	81	85	91	81	86	86	88	86	81	80	84.7
		MIN	53	49	53	56	55	55	52	53	53	70	72	71	69	69	64	63	65	67	62	62	62	66	58	58	59	65	57	59	60	61	60.6
Battle Creek 3 NE	8	MAX	75	75	83	83	74	86	80	78	88	94	95	96	94	88	89	88	89	93	87	92	84	88	92	82	89	90	91	86	81	84	86.5
		MIN	54	47	47	52	55	54	50	52	62	72	73	71	72	71	67	62	67	66	66	71	60	62	57	59	65	56	60	55	58	62	60.8
Carroll	7	MAX	74	76	83	85	76	86	79	77	87	94	96	95	94	93	89	93	88	91	86	91	85	89	92	82	89	90	92	88	82	82	86.8
		MIN	55	51	56	57	56	58	54	54	59	73	75	74	74	70	67	63	65	68	69	70	62	64	61	59	60	66	65	57	61	60	62.8
Castana Exp. Farm	8	MAX	74	76	82	81	74	86	77	78	86	90	92	94	92	89	87	91	90	91	86	89	81	86	91	80	87	90	91	85	84	82	85.4
		MIN	55	54	56	55	56	59	53	57	61	71	74	71	73	71	69	63	67	65	65	65	64	68	61	59	63	65	66	58	60	64	62.9
Denison	7	MAX	72	72	82	83	71	85	76	76	85	92	92	95	93	92	86	91	89	92	89	90	87	87	94	82	86	88	88	88	82	82	85.6
		MIN	54	53	55	55	55	57	53	53	60	70	71	72	71	70	68	62	64	66	66	69	63	64	59	59	59	65	63	60	62	61	62.0
Guthrie Center	8	MAX	76	77	84	86	77	86	80	78	87	94	95	94	96	95	93	95	90	90	89	92	85	89	94	82	90	91	91	88	82	82	87.6
		MIN	51	49	60	55	56	55	52	52	66	74	73	70	68	68	64	63	67	66	61	75	64	71	59	57	67	67	58	56	62	61	62.2
Holstein	22	MAX	73	82	84	72	85	78	75	87	93	95	96	94	85	88	86	86	89	84	90	82	86	90	78	86	87	88	84	78	78	81	84.7
		MIN	53	51	59	55	53	56	50	59	69	71	74	73	73	66	67	62	68	66	66	71	64	67	56	58	74	63	65	60	61	64	63.1
Little Sioux 2 NW	7	MAX	75	77	86	90	77	85	80	79	90	98	99	100	99	93	90	98	98	98	88	94	85	88	93	82	93	94	93	90	83	86	89.4
		MIN	50	49	53	50	50	53	47	49	59	70	72	72	71	69	65	65	68	65	65	67	63	63	55	58	62	63	62	59	60	64	60.6
Logan	8	MAX	76	78	86	87	78	87	81	79	89	95	95	96	95	92	90	96	97	95	91	92	85	88	91	82	90	90	91	88	82	86	88.3
		MIN	51	51	56	55	57	55	50	50	67	74	73	69	70	71	65	67	72	68	64	74	63	70	58	63	71	66	61	60	64	65	63.3

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW			
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
Mapleton #2	7 MAX	74	74	84	82	72	85	76	77	89	92	94	96	94	88	88	89	91	94	88	90	83	88	91	81	89	90	91	86	81	84		86.0
	MIN	54	48	49	54	55	57	50	53	68	68	73	72	73	70	67	62	64	64	65	66	63	68	58	59	68	59	60	56	56	63		61.4
Rockwell City	7 MAX	74	74	80	85	74	86	78	76	85	94	96	95	93	90	88	89	86	87	84	89	83	85	90	79	85	88	90	86	80	76		84.8
	MIN	56	53	53	56	55	58	52	55	63	71	74	74	71	70	66	62	62	66	64	69	62	64	59	57	60	66	66	59	61	60		62.1
Sac City	7 MAX	72	72	80	84	73	84	76	75	86	92	94	94	94	89	85	88	85	87	84	89	84	85	91	80	86	87	89	86	79	78		84.3
	MIN	54	50	50	56	56	58	53	54	54	72	74	74	70	70	63	60	65	67	64	67	60	67	60	57	64	64	66	57	59	60		61.5
Sioux City Airport	24 MAX	78	88	85	77	88	79	79	90	94	95	95	95	87	86	90	94	95	86	90	85	91	94	84	92	92	92	88	83	87	86		88.2
	MIN	52	50	58	54	54	56	50	57	68	75	75	70	73	68	63	66	70	66	67	68	62	70	61	63	70	61	63	61	68	65		63.5
CENTRAL DIVISION																																	
Ames Airport	24 MAX	77	81	84	81	88	82	76	83	94	95	95	93	93	89	92	88	86	87	90	87	88	91	82	85	92	87	88	81	78	83		86.5
	MIN	55	52	58	58	58	60	53	50	65	73	69	71	66	64	61	63	65	64	59	71	63	67	61	53	72	68	63	59	58	62		62.0
Ames 8 WSW	16 MAX	73	77	84	83	85	85	75	81	92	94	94	92	91	89	90	90	86	86	89	89	85	88	89	82	90	87	87	85	78	81		85.9
	MIN	56	54	62	56	56	58	54	56	68	72	69	71	68	70	65	62	64	67	64	74	64	66	61	56	72	71	64	59	59	64		63.4
Ames 5 SE	6 MAX	77	75	80	84	79	86	80	74	82	92	93	94	90	91	90	91	88	86	87	90	88	86	91	80	84	91	88	86	80	76		85.3
	MIN	55	51	52	57	57	57	55	50	52	66	68	67	66	67	64	63	63	64	62	64	64	65	63	55	55	70	63	58	58	59		60.3
Ankeny	8 MAX	79	77	81	83	80	85	81	75	82	92	93	90	90	89	89	91	86	86	87	89	86	87	91	81	86	93	88	87	80	78		85.4
	MIN	56	53	62	60	57	58	55	51	68	72	66	72	68	70	66	65	65	65	61	63	65	68	64	57	65	69	64	60	60	64		63.0
Boone	8 MAX	76	76	80	83	77	83	79	75	83	91	92	93	91	91	88	90	87	87	87	89	86	87	90	82	85	90	89	88	82	77		85.1
	MIN	51	47	55	53	53	50	49	49	61	69	69	68	67	68	62	61	64	64	60	68	62	66	59	56	62	69	62	57	59	63		60.1
Des Moines Airport	24 MAX	79	82	85	82	87	85	77	84	95	95	91	93	91	92	96	89	89	90	91	89	88	95	85	89	95	90	90	83	81	85		88.1
	MIN	59	56	63	61	59	60	57	59	68	73	69	74	73	71	69	69	69	71	68	70	67	72	66	63	75	71	69	66	63	66		66.5
Des Moines Camp Dodge	24 MAX	77	81	84	80	85	82	76	83	92	92	92	91	91	89	92	85	86	86	89	86	87	92	83	86	90	89	88	82	78	82		85.9
	MIN	56	54	63	59	56	58	55	57	68	73	68	73	71	67	66	65	67	68	68	72	66	69	61	61	75	70	65	61	62	65		64.6
Eldora	7 MAX	78	75	79	85	77	85	76	73	82	92	94	94	89	92	89	89	85	84	87	89	84	87	88	77	84	91	89	84	76	77		84.4
	MIN	55	51	56	57	54	56	52	50	58	65	65	72	64	64	63	60	62	64	64	68	59	62	60	61	64	70	65	58	56	60		60.5
Fort Dodge 5 NNW	7 MAX	73	73	77	83	75	84	75	74	80	90	93	92	90	87	84	87	83	84	84	87	81	83	87	77	81	87	88	82	82	76		82.6
	MIN	55	50	51	55	55	58	52	51	55	70	71	73	70	68	63	60	63	64	65	71	59	61	59	54	63	64	65	57	57	59		60.6
Grinnell 3 SW	7 MAX	76	76	80	83	78	83	81	74	81	91	91	87	86	89	87	90	85	82	85	87	87	85	88	80	82	89	85	86	77	75		83.5
	MIN	56	48	49	50	56	47	49	43	47	68	67	68	65	66	66	62	63	61	56	61	65	65	63	56	62	72	59	58	56	58		58.7
Grundy Center	8 MAX	79	75	78	85	76	85	76	72	82	92	93	92	88	89	87	88	84	83	86	88	84	86	87	74	83	90	87	83	74	75		83.4
	MIN	56	52	57	59	56	55	53	49	56	65	65	70	64	68	62	61	61	63	61	69	58	62	62	63	64	71	66	57	55	59		60.6
Iowa Falls	7 MAX	76	74	79	84	76	84	76	73	81	91	92	92	88	89	86	88	85	84	86	88	83	85	87	76	82	89	89	83	77	76		83.3
	MIN	53	49	53	57	54	54	52	48	52	66	66	71	64	67	62	60	62	64	60	64	56	60	61	61	63	68	64	56	55	58		59.3
Marshalltown	7 MAX	80	75	80	85	78	84	79	73	83	92	93	93	89	90	89	92	87	85	87	88	87	87	89	78	85	90	87	84	76	78		84.8
	MIN	56	51	55	60	56	57	53	47	50	67	64	72	66	69	63	62	64	63	60	66	60	60	64	61	64	71	67	59	57	61		60.8
Marshalltown Airport	24 MAX	76	79	86	81	87	81	74	83	93	94	92	88	90	88	92	86	84	87	89	87	86	90	79	84	92	87	85	77	76	80		85.1
	MIN	56	50	61	60	55	55	51	49	66	67	64	67	65	67	62	60	61	64	60	69	58	66	62	61	71	69	54	57	55	60		60.7
Newton	7 MAX	81	77	81	86	81	85	82	75	83	95	95	91	90	93	92	92	86	85	87	91	87	88	91	82	85	93	89	87	78	77		86.2
	MIN	59	54	54	61	57	57	54	52	52	65	67	68	67	67	65	64	64	64	65	68	67	67	64	56	56	70	69	60	57	57		61.6

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW				
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
Perry	7	MAX	76	78	83	86	80	87	81	77	86	93	94	94	94	91	92	89	89	89	91	87	89	92	81	90	92	90	88	82	81	87.2		
		MIN	55	52	56	57	57	55	55	56	60	69	72	72	73	71	67	64	67	68	65	69	66	67	61	60	62	71	64	59	61	62	63.1	
Toledo 3 N	7	MAX	78	76	79	84	78	82	79	73	82	92	93	92	88	91	90	90	85	84	87	89	86	87	88	77	84	92	87	83	74	76	84.2	
		MIN	57	52	52	61	57	57	51	47	54	64	64	68	64	66	64	61	61	61	62	63	60	60	63	60	60	70	65	58	55	55	59.7	
Webster City	7	MAX	74	74	79	83	77	83	76	73	81	91	92	90	89	89	86	86	84	86	85	87	81	88	88	78	83	88	88	83	78	77	83.2	
		MIN	53	47	50	56	52	55	50	48	56	67	68	68	67	67	62	58	60	64	61	64	57	58	58	57	60	66	64	56	55	60	58.8	
EAST CENTRAL DIVISION																																		
Anamosa 3 SSW	6	MAX	79	76	76	83	79	82	77	72	79	80	90	88	78	88	86	89	81	82	85	87	86	83	84	75	80	88	86	82	70	76	81.6	
		MIN	60	52	52	56	60	55	53	46	46	60	66	68	59	60	64	64	60	60	59	67	60	60	63	58	58	69	67	57	51	52	58.7	
Belle Plaine	7	MAX	79	77	80	83	80	84	81	74	80	90	90	91	91	90	88	92	87	86	86	88	90	87	88	79	83	89	88	85	76	76	84.6	
		MIN	57	47	55	61	60	51	53	43	52	64	66	69	62	65	60	58	59	56	56	67	58	66	65	54	64	70	61	55	51	58	58.8	
Bellevue Lock & Dam 12	6	MAX	76	81	78	87	82	83	79	70	80	74	94	92	74	88	88	91	78	86	87	91	91	86	86	83	84	92	92	86	73	72	83.5	
		MIN	60	54	54	54	55	54	54	47	48	61	64	68	63	64	68	67	67	61	60	61	58	59	59	59	59	72	72	62	52	52	59.6	
Cedar Rapids Airport	24	MAX	77	80	85	80	83	81	73	80	91	92	89	83	90	88	91	85	85	87	89	89	86	85	78	82	91	87	84	75	76	74	83.9	
		MIN	59	52	57	61	60	56	51	48	63	68	66	66	62	68	67	62	61	62	61	65	61	66	62	59	70	70	64	57	52	60	61.2	
Cedar Rapids #1	17	MAX	82	82	88	86	86	86	76	83	84	96	93	91	91	90	95	93	87	88	92	91	89	88	86	84	93	91	90	86	79	79	87.5	
		MIN	60	51	55	61	60	60	52	46	60	67	65	67	61	69	63	63	62	60	59	74	59	64	66	57	67	69	68	57	52	63	61.2	
Clinton #1	18	MAX	81	79	85	84	81	80	76	79	80	92	90	89	89	88	92	91	83	85	89	91	86	84	82	81	91	89	86	82	76	75	84.5	
		MIN	62	57	57	64	61	57	55	50	61	65	71	64	61	72	67	66	64	62	63	74	63	65	69	60	69	70	67	61	54	60	63.0	
Coggon	6	MAX	80	76	77	84	79	82	78	72	81	80	92	90	80	90	88	90	80	84	86	89	88	84	82	74	82	91	87	83	74	76	82.6	
		MIN	60	51	54	62	59	55	51	45	50	62	66	68	59	61	61	62	60	59	57	70	55	55	64	57	58	70	66	57	50	53	58.6	
Davenport Airport	24	MAX	80	79	85	81	83	83	74	80	84	91	88	79	90	88	91	82	84	86	88	90	84	84	81	83	90	87	84	74	76	76	83.5	
		MIN	60	55	58	63	61	58	51	48	61	68	70	62	61	68	68	64	63	57	62	63	60	63	62	59	68	65	64	53	52	59	60.9	
Iowa City	7	MAX	83	79	80	84	82	83	83	75	83	93	93	92	87	94	91	93	87	87	89	92	93	88	87	84	84	93	88	87	78	79	86.4	
		MIN	61	51	56	62	60	54	53	46	47	64	67	69	63	66	69	65	62	61	58	64	64	66	66	62	62	72	63	63	53	57	60.9	
Iowa City Airport	24	MAX	78	80	85	82	84	82	74	82	93	94	92	86	92	90	94	86	85	88	91	93	87	87	81	83	93	87	86	77	76	76	85.5	
		MIN	59	53	59	62	62	57	52	49	64	69	68	68	63	70	69	66	63	63	62	70	67	66	66	62	68	71	65	58	55	63	63.0	
Le Claire L & D 14	6	MAX	82	83	82	87	83	84	82	74	83	85	92	90	81	90	89	95	81	87	90	90	93	87	86	82	85	92	90	87	74	79	85.5	
		MIN	63	61	61	61	62	62	55	55	55	63	73	65	63	63	69	66	65	65	66	66	65	65	64	63	63	70	70	63	58	60	63.3	
Lowden	24	MAX	81	81	86	83	84	81	72	81	83	93	90	79	90	90	94	82	85	88	90	91	87	87	80	84	92	91	87	74	77	78	84.7	
		MIN	59	52	55	63	61	57	52	47	60	67	67	63	59	69	67	64	63	59	60	67	58	64	63	59	65	70	66	55	51	62	60.8	
Maquoketa 4 W	7	MAX	79	79	78	86	81	83	82	72	81	78	93	89	77	90	89	91	79	84	86	89	89	84	82	78	82	89	88	83	70	77	82.9	
		MIN	60	53	55	59	60	57	51	46	49	61	67	66	58	61	66	63	64	60	61	63	59	62	66	58	59	69	65	59	51	53	59.4	
Muscatine	6	MAX	81	81	80	85	82	84	83	74	82	93	94	93	84	93	93	96	86	86	89	92	92	88	89	82	85	94	90	88	77	77	86.4	
		MIN	62	55	59	59	63	58	55	49	56	62	71	71	64	65	69	65	66	65	62	67	66	63	66	65	65	73	65	65	53	60	62.8	
Vinton	7	MAX	80	78	80	85	80	84	78	73	82	84	93	92	83	88	87	91	83	84	86	88	87	86	86	76	82	89	88	83	75	76	83.6	
		MIN	59	51	59	59	60	57	53	47	53	65	66	71	62	65	65	63	61	63	61	69	61	62	65	59	64	69	67	59	53	58	60.9	
Williamsburg 1 E	7	MAX	82	79	81	87	81	86	84	75	83	94	94	91	91	93	92	94	87	87	89	91	90	88	88	81	86	93	88	86	76	76	86.4	
		MIN	60	53	56	61	62	57	54	48	49	66	67	68	63	65	67	63	63	61	60	67	63	66	66	58	61	69	64	58	53	56	60.8	

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW				
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
		DAY OF MONTH																																
SOUTHWEST DIVISION																																		
Atlantic 1 NE	7	MAX	75	78	84	83	79	86	83	79	86	93	94	93	93	91	88	95	94	92	88	91	83	85	92	83	88	89	89	87	83	82	86.9	
		MIN	52	49	53	56	55	53	50	53	56	72	73	71	71	69	66	64	66	68	63	69	60	63	57	58	62	66	57	59	60	63	61.1	
Bedford	7	MAX	76	77	83	85	77	84	82	76	83	91	92	89	92	89	89	96	93	92	87	88	86	87	94	83	88	91	86	84	84	82	86.2	
		MIN	58	57	57	57	56	57	52	56	60	67	70	73	69	70	69	70	70	70	68	69	63	70	66	65	66	73	63	66	65	63	64.5	
Clarinda	6	MAX	75	76	82	82	78	82	81	78	83	90	90	89	89	87	89	96	91	89	85	88	86	85	91	80	85	87	83	86	80	80	84.8	
		MIN	54	53	52	57	55	56	50	50	56	68	72	66	67	68	64	64	64	68	61	66	62	63	63	62	62	67	59	59	64	63	61.2	
Glenwood	6	MAX	76	79	86	86	80	86	86	79	88	93	94	95	93	91	92	97	94	94	89	93	85	88	91	83	89	90	88	88	83	85	88.0	
		MIN	54	52	52	56	56	57	56	54	57	70	73	70	69	70	68	67	69	70	65	65	62	62	66	64	63	70	62	62	65	66	63.1	
Greenfield	8	MAX	76	78	82	83	78	84	80	77	84	91	92	91	92	91	89	96	92	89	88	90	85	85	91	83	87	89	88	85	83	81	86.0	
		MIN	54	52	61	58	55	58	52	57	67	69	72	71	69	68	67	66	66	65	65	72	63	71	61	58	66	66	64	62	61	64	63.3	
Oakland	7	MAX	74	77	85	87	78	86	84	79	87	93	94	94	93	91	91	96	95	93	88	92	84	86	89	79	88	89	88	86	80	83	87.0	
		MIN	54	57	60	57	57	56	54	54	61	72	73	71	70	69	68	68	71	69	67	74	62	64	62	61	69	68	63	62	63	63	64.0	
Red Oak	7	MAX	77	79	84	84	80	86	84	80	87	92	93	91	93	91	91	98	95	94	89	91	88	88	92	85	89	90	87	88	84	83	87.8	
		MIN	54	52	55	57	57	56	51	56	61	73	74	69	71	72	67	71	73	72	65	71	64	65	64	64	66	70	62	65	67	64	64.3	
Shenandoah	8	MAX	77	79	85	85	80	85	84	80	87	93	94	93	94	91	93	99	94	94	89	92	88	90	94	83	89	90	87	89	83	83	88.1	
		MIN	57	55	62	60	59	60	54	60	66	73	76	71	71	72	71	69	74	72	68	75	64	70	65	64	69	68	64	66	65	65	66.2	
Sidney 1 SSE	7	MAX	75	79	85	86	79	84	82	79	89	93	94	95	93	91	92	99	94	93	89	93	87	89	92	80	89	90	84	89	80	83	87.6	
		MIN	58	55	57	60	58	59	57	57	61	73	73	71	69	69	71	71	71	70	66	66	63	64	65	63	64	68	64	65	65	64	64.6	
SOUTH CENTRAL DIVISION																																		
Albia 3 NNE	7	MAX	78	78	80	82	79	82	84	75	80	M	M	M	M	M	M	M	M	M	M	M	M	86	91	84	86	92	89	87	79	77	M	
		MIN	57	53	56	60	57	60	53	50	50	M	M	M	M	M	M	M	M	M	M	M	M	69	67	58	64	71	64	56	58	58	M	
Allerton	8	MAX	78	78	81	81	79	81	82	73	82	91	90	87	89	88	90	95	90	86	87	89	87	84	93	82	86	92	87	91	82	79	85.3	
		MIN	56	53	53	58	57	58	55	55	56	64	68	68	67	68	69	68	65	65	63	65	66	68	65	59	59	69	62	62	60	60	62.0	
Beaconsfield	7	MAX	76	75	80	82	77	80	81	73	83	89	90	87	90	87	88	94	91	88	87	89	85	84	92	80	86	89	84	80	78	80	84.2	
		MIN	59	57	58	58	57	57	54	56	58	67	69	69	68	69	68	68	67	65	64	64	66	65	64	59	61	68	64	64	61	61	62.8	
Centerville	7	MAX	78	80	83	82	82	82	83	76	82	92	90	87	92	90	91	97	93	89	90	90	89	84	93	83	88	92	88	89	81	80	86.5	
		MIN	55	50	50	60	58	55	49	49	55	65	71	67	67	68	65	66	66	61	65	68	64	67	67	58	60	70	59	62	60	60	61.2	
Chariton 1 E	7	MAX	78	79	82	82	80	82	83	75	82	90	90	87	90	88	89	96	89	86	88	90	86	85	92	82	90	91	88	88	81	80	85.6	
		MIN	56	46	49	55	56	60	49	47	49	66	71	70	69	68	62	62	61	58	61	68	61	65	65	54	61	71	64	57	56	60	59.9	
Creston 2 SW	7	MAX	76	77	83	82	79	83	83	76	83	91	92	88	91	91	91	96	92	88	88	90	84	85	91	80	86	89	86	83	80	81	85.5	
		MIN	55	57	58	60	56	58	55	55	61	69	70	70	68	71	68	66	67	66	64	70	64	65	62	59	62	70	64	61	61	62	63.1	
Indianola 4 W	7	MAX	79	77	82	86	79	83	80	75	85	93	93	87	91	91	90	94	87	88	88	89	86	86	92	83	88	93	89	88	83	82	86.2	
		MIN	55	51	56	58	56	58	53	52	63	72	67	67	71	70	65	65	65	64	63	68	62	66	63	58	64	70	61	58	60	64	62.2	
Knoxville	8	MAX	79	78	80	83	79	83	82	74	81	92	92	86	91	91	91	96	88	86	89	90	88	88	94	82	88	93	90	87	80	79	86.0	
		MIN	59	55	62	59	58	59	56	55	64	69	67	67	69	70	65	65	65	65	66	72	65	69	66	58	64	71	66	62	59	64	63.7	
Lamoni	7	MAX	79	80	84	85	81	84	85	77	86	92	94	92	94	91	91	99	96	92	92	92	91	89	97	85	90	94	88	94	85	83	88.7	
		MIN	60	56	60	60	59	60	56	58	61	67	73	72	70	72	71	72	70	70	69	69	68	69	68	63	64	70	65	66	62	61	65.4	

JUNE 2016		DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW				
STATION	OBS TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
Lamoni Airport	24	MAX	78	81	81	79	81	82	75	82	88	90	88	91	88	90	97	92	88	87	89	90	85	94	83	86	90	86	92	83	80	85	86.0	
		MIN	57	56	60	58	57	57	54	59	64	68	70	71	69	71	69	67	68	64	67	66	66	74	65	61	73	69	64	63	62	63	64.4	
Mount Ayr	8	MAX	74	76	80	82	77	81	81	75	81	87	90	88	90	87	87	96	91	89	89	88	87	89	93	82	86	89	84	88	81	79	84.9	
		MIN	54	56	54	56	55	53	55	52	63	67	71	65	66	67	63	69	68	66	60	69	63	68	63	60	69	68	63	58	62	63	62.2	
Osceola	8	MAX	78	79	84	84	79	85	85	76	85	93	94	89	93	93	89	98	92	90	90	91	87	87	96	82	90	92	90	86	83	84	87.5	
		MIN	53	50	57	61	58	55	53	51	57	71	71	67	69	68	65	65	67	63	58	71	64	69	65	58	65	71	58	62	60	63	62.2	
Rathbun Dam	7	MAX	79	79	82	83	80	82	82	75	81	91	90	87	91	89	90	97	89	85	87	90	88	83	91	82	85	92	87	88	81	79	85.5	
		MIN	57	53	59	59	59	61	57	53	59	67	72	70	68	69	67	68	64	66	61	69	65	68	68	60	63	71	63	64	59	62	63.4	
Winterset 1 S	7	MAX	75	77	80	81	78	82	79	79	82	91	90	88	90	89	87	94	87	87	87	88	85	85	91	80	86	89	89	84	84	80	84.8	
		MIN	54	51	61	56	55	55	53	52	66	66	68	68	68	65	65	64	64	62	74	60	66	61	57	61	68	61	60	60	61	61.7		
SOUTHEAST DIVISION																																		
Burlington Airport	24	MAX	81	81	83	82	82	85	76	80	92	92	89	88	91	91	95	89	86	88	90	91	86	91	85	85	93	91	92	79	77	81	86.4	
		MIN	61	57	60	65	62	62	54	50	65	69	69	70	65	70	71	68	64	65	61	73	68	67	66	61	70	64	62	61	55	62	63.9	
Donnellson	7	MAX	83	85	84	85	84	83	86	79	83	93	93	93	94	93	93	98	94	87	89	93	93	87	95	87	90	91	95	95	82	82	89.0	
		MIN	63	58	58	61	62	62	55	52	58	65	73	74	63	69	71	69	63	63	63	69	64	68	68	59	63	76	66	63	55	58	63.7	
Fairfield	8	MAX	80	80	81	83	80	82	83	74	81	92	91	91	90	92	92	97	88	84	88	91	90	87	93	82	87	95	88	90	78	79	86.3	
		MIN	60	54	54	61	60	62	54	49	64	69	71	71	66	69	66	66	61	61	59	72	65	67	68	59	66	74	64	62	55	63	63.1	
Fort Madison	24	MAX	80	80	82	80	80	83	75	78	91	91	87	86	88	91	94	89	82	87	90	89	85	91	85	82	92	89	92	78	74	78	85.0	
		MIN	62	58	59	62	60	62	55	51	64	69	70	71	66	70	68	67	62	64	63	71	67	65	65	59	68	66	63	62	56	61	63.5	
Keokuk Lock & Dam 19	6	MAX	82	82	81	84	82	82	85	76	82	93	93	94	89	92	92	97	89	84	87	92	93	85	92	86	87	92	88	92	78	78	87.0	
		MIN	64	61	62	62	60	63	57	54	54	65	72	72	68	69	69	72	66	65	65	67	69	70	68	65	66	72	67	67	60	61	65.1	
Keosauqua	7	MAX	81	80	85	81	82	83	84	76	82	92	92	92	90	92	90	97	92	90	89	92	91	87	93	84	88	93	91	92	82	81	87.5	
		MIN	61	57	57	59	61	52	53	50	58	67	70	71	66	67	66	68	67	63	59	72	66	68	68	59	59	73	62	61	56	57	62.4	
Mount Pleasant 1 SSW	7	MAX	79	80	82	82	81	83	83	74	81	91	90	91	88	91	91	98	90	87	90	90	90	88	92	84	86	93	91	91	79	79	86.5	
		MIN	58	53	53	63	60	60	52	47	58	68	71	68	64	69	67	65	59	63	58	69	65	66	65	59	64	74	61	60	53	58	61.7	
Oskaloosa	7	MAX	80	79	83	87	82	85	85	76	81	91	91	88	89	89	88	96	88	88	90	88	88	88	90	84	88	91	88	88	81	80	86.3	
		MIN	59	55	63	61	58	59	54	51	55	67	67	69	67	68	66	66	64	63	65	69	66	66	66	56	59	73	64	61	57	60	62.5	
Ottumwa Airport	24	MAX	79	81	84	79	82	82	75	81	92	91	89	90	90	90	97	89	85	88	89	88	88	91	83	85	91	87	89	80	78	83	85.9	
		MIN	55	52	60	61	58	57	53	50	67	70	69	72	66	67	65	64	63	60	58	65	64	69	63	57	71	64	61	59	57	61	61.9	
Sigourney	7	MAX	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	78	79	M	
		MIN	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	55	55	M	
Washington	7	MAX	80	80	82	83	81	81	83	76	81	91	91	90	88	92	91	96	90	86	88	90	95	88	90	85	86	93	93	92	78	80	86.7	
		MIN	60	53	56	61	60	55	54	47	52	66	69	68	63	65	67	65	60	61	57	64	62	64	66	59	64	73	60	60	51	58	60.7	
SUPPLEMENTAL STATIONS																																		
Moline Airport	24	MAX	83	82	86	84	84	85	76	82	87	94	91	84	95	92	96	87	87	89	91	95	88	87	85	85	93	91	90	77	78	78	86.7	
		MIN	60	54	56	65	63	59	52	48	63	70	74	65	61	71	70	68	64	59	62	68	64	64	67	61	69	71	66	58	54	62	62.9	
Omaha Eppley AP	24	MAX	80	88	88	81	88	84	81	90	96	97	98	96	92	93	99	97	97	91	94	87	90	95	85	92	94	92	90	86	87	89	90.6	
		MIN	54	54	62	59	57	58	53	61	71	74	78	74	73	75	70	72	76	68	71	64	66	70	63	65	76	70	69	65	68	67	66.8	
Sioux Falls WFO AP	24	MAX	72	83	80	75	85	74	77	89	95	95	98	95	82	81	85	88	93	82	89	81	83	85	78	86	86	87	80	81	81	78	84.1	
		MIN	50	43	57	57	55	54	49	56	68	75	69	75	68	69	61	60	67	67	71	60	54	62	56	63	66	55	59	55	63	53	60.6	

JUNE 2016		DAILY PRECIPITATION (INCHES) FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																															IOWA CLIMATE REVIEW												
STATION	OBS	DAY OF MONTH																															IOWA CLIMATE REVIEW												
	TIME	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31												
NORTHWEST DIVISION																																													
Akron	7	2.35				0.43										0.30	0.92			0.30														0.02	0.35										
Cherokee	8	0.80	0.13			0.05	T									T	0.19																	0.38											
Emmetsburg	8	1.59	0.08			0.08										0.12	0.25																		0.12										
Estherville Airport	24	2.91			0.11	T				T					0.49						0.53														0.02										
Estherville 4 E	7	2.90	0.07			0.11									0.44						0.47																								
Everly 3 WNW	7	3.08	0.06			0.14									0.53						0.15	1.15											0.02	0.26											
Hawarden	7	3.45				0.37															0.15	0.85												0.06											
Le Mars	7	3.19				0.14															0.30	0.80												0.33											
Orange City	7	2.84	0.08			0.46				T											0.80	0.78											0.02	0.08											
Pocahontas	8	0.89	0.03			0.15									T	T					0.63													T											
Primghar	16	3.85			0.06	0.19										0.74					1.70													0.91	0.15										
Remsen #2	6	3.23	0.12			0.11															0.40	1.41												0.46											
Rock Rapids	8	4.46				0.94															0.63	0.55											T	0.76	0.33										
Rock Valley	7	3.37	T			0.52									0.01						0.09	0.75												0.35	0.01										
Sanborn	8	3.57				0.43										0.41					0.77	0.44												0.89	0.31										
Sheldon	7	4.53	0.04			0.45										0.33					0.78	1.07												0.41	0.79										
Sibley	7	3.52	0.02			0.91										0.02					0.28	0.70												0.02	0.05	0.21									
Sioux Center 2 SE	16	3.11			0.31	0.16									0.01						0.16	1.40													0.17										
Sioux Rapids 4 E	22	1.49			0.06											0.10					0.12	1.02												T	0.11										
Spencer Airport	24	5.53			T	0.10	T									1.44					T	2.70													0.20	T									
Spencer 1 N	24	4.50			T	0.19										0.82					T	1.92													0.13										
Spirit Lake 4 W	24	5.57			0.28	0.02									0.03	1.27					2.35														T	0.05									
Storm Lake	8	2.16	0.08			0.07															T	0.71													0.25	1.05									
Washta	7	M	M			M										T					T	0.77													T	T	T								
NORTH CENTRAL DIVISION																																													
Algona 3 W	6	3.11	0.09			0.18										0.05					0.68	1.10												0.25	0.63	0.13									
Allison	7	7.37	0.30			1.70	0.05									0.65					1.17														0.03	1.33	0.17	0.22							
Britt	7	3.29	0.02			0.17	0.05									0.50					0.06															0.16	0.57	0.08	0.12						
Charles City	7	9.47	0.18			0.89	0.22									0.58	3.48	0.01			0.15	2.26													T	1.00	0.10	0.60							
Clarion	7	4.43	0.36			0.22										0.02					1.73	0.74													0.34	0.58	0.12	0.19		0.13					
Dakota City	8	1.75				0.20	T															0.91													0.02	0.52	0.09	0.01							
Forest City 2 NNE	7	5.14				0.12										0.37					0.40															T	1.42	0.18	0.72						
Hampton	7	6.42	0.20			1.90	0.02									0.08					1.07																0.95	0.15	0.48						
Kanawha	8	3.33	0.08			0.47										0.44					1.04															0.04	0.65	0.07	0.01						
Lake Mills	7	7.13				0.29	0.05									0.30					2.32																1.47	0.15	0.47						
Mason City	7	5.85	0.49			0.53	T									0.10					1.15															0.03	1.85	0.13	0.30						
Mason City Airport	24	6.51			0.63											0.24	T	0.46			0.40	1.84													0.11	1.09	1.13	0.33		0.28					
Nashua 2 SW	7	10.71	0.10			1.15	0.01									0.23					3.79															0.12	1.57	0.10	1.67						
Northwood	7	M	0.79			0.28	0.08									0.23					0.40															M	M	M	M	M	M	M	M	M	M
Osage	7	6.94	0.60			0.90	0.25									0.22					1.91																0.22	0.14	0.29						
Saint Ansgar	6	3.78	0.52			0.60	0.11									0.38					0.40																T	0.08	0.18	0.45					
Swea City 4 W	7	2.64	0.01			0.19	T									0.03					0.09																1.39	0.04	T						
NORTHEAST DIVISION																																													
Cascade	7	8.53	0.19			0.43	0.01									0.13	0.29				0.32	1.85	0.03	0.03	3.55											0.42	0.26	1.02							
Cresco 1 NE	7	6.80	0.41			0.52	0.14	0.02	0.07							0.57					0.65	0.82	0.31	0.06	1.83											T	0.04	0.36	T	1.00					
Decorah	16	6.04	1.02			0.88	0.10									0.63					0.48	0.71			0.02	0.95											T	0.26	0.20	0.70		0.08			
Dubuque Lock & Dam 11	6	7.55	1.21			0.26	0.05	0.02								0.38					0.23	0.02	0.08	0.04	3.88												0.58	0.15	0.55	0.10					
Dubuque Airport	24	7.29	0.13			0.14	T									0.19	0.10				0.15	0.55	0.01	3.50												1.59		0.65		0.28					
Elkader 6 SSW	7	5.71	0.82			0.39	0.17	T								0.08	0.04				0.25	0.10		0.70	2.30											0.36	0.06	0.44							
Fayette	7	6.42	0.46			0.66	0.24									0.07					0.54	0.06		1.72	2.00											0.33	0.06	0.28							
Guttenberg L & D 10	6	7.18	0.61			0.44	0.33	0.03								0.40					0.37	0.03		0.23	3.27											0.30	0.04	1.13							
Ionia 2 W	7	7.75	0.38			0.99	0.08									0.45					1.76			0.02	2.42											0.68	0.10	0.85							
Manchester #2	7	6.71	0.24			0.58	0.06									0.34	T				0.26	0.31		0.72	2.64										0.33	0.21	1.02								
New Hampton	8	7.89	0.42			1.00	0.54									0.45					0.44			0.03	2.72											0.35	0.19	1.75							
Oelwein 1 E	7	5.90	0.28			0.41	0.56									0.03	0.16				0.23			1.26	1.52										0.33	0.15	0.97								
Postville	7	7.48	0.74			0.62	0.25									0.24	0.09				1.30	0.06	0.32	0.04	3.15										0.14	0.09	0.44								
Stanley 4 W	7	4.87	0.22			0.37	0.18									0.20	0.03				0.27			0.65	1.80										0.52	0.16	0.47								





JUNE 2016		STATION INDEX							IOWA CLIMATE REVIEW			JUNE 2016		STATION INDEX							IOWA CLIMATE REVIEW		
STATION NAME	DIV	COUNTY	COORDINATES						ELEV (FT)	STATION NAME	DIV	COUNTY	COORDINATES						ELEV (FT)				
			LATITUDE			LONGITUDE							LATITUDE			LONGITUDE							
			DEG	MIN	SEC	DEG	MIN	SEC					DEG	MIN	SEC	DEG	MIN	SEC		DEG	MIN	SEC	
Akron	NW	Plymouth	42	49	37	96	33	21	1125	Davenport Airport	EC	Scott	41	36	42	90	34	54	748				
Albia 3 NNE	SC	Monroe	41	3	56	92	47	12	890	Decorah	NE	Winneshiek	43	18	15	91	47	43	860				
Algona 3 W	NC	Kossuth	43	4	6	94	18	19	1230	Denison	WC	Crawford	42	2	11	95	19	44	1401				
Allerton	SC	Wayne	40	42	15	93	22	11	1110	Des Moines Airport	C	Polk	41	32	2	93	39	11	957				
Allison	NC	Butler	42	45	13	92	48	8	1048	Des Moines Camp Dodge	C	Polk	41	44	12	93	43	25	959				
Ames Airport	C	Story	41	59	26	93	37	8	955	De Witt	EC	Clinton	41	48	39	90	32	26	685				
Ames 8 WSW	C	Boone	42	1	15	93	46	27	1099	Donnellson	SE	Lee	40	38	45	91	33	50	705				
Ames 5 SE	C	Story	41	57	7	93	33	56	870	Dubuque L & D 11	NE	Dubuque	42	32	24	90	38	46	620				
Anamosa 3 SSW	EC	Jones	42	5	35	91	18	7	906	Dubuque Airport	NE	Dubuque	42	23	52	90	42	13	1056				
Ankeny	C	Polk	41	43	6	93	34	27	940	Eldora	C	Hardin	42	21	55	93	5	50	1144				
Atlantic 1 NE	SW	Cass	41	25	3	95	0	14	1148	Elkader 6 SSW	NE	Clayton	42	46	31	91	27	13	788				
Audubon	WC	Audubon	41	42	25	94	55	20	1280	Emmetsburg	NW	Palo Alto	43	6	9	94	41	0	1260				
Battle Creek 3 NE	WC	Ida	42	22	12	95	34	30	1380	Estherville Airport	NW	Emmet	43	24	4	94	44	50	1317				
Beaconsfield	SC	Ringgold	40	48	25	94	2	51	1215	Estherville 4 E	NW	Emmet	43	24	13	94	44	50	1320				
Bedford	SW	Taylor	40	40	27	94	43	28	1190	Everly 3 WNW	NW	Clay	43	11	0	95	22	59	1365				
Belle Plaine	EC	Benton	41	52	53	92	16	35	810	Fairfield	SE	Jefferson	41	1	16	91	57	19	746				
Bellevue L & D 12	EC	Jackson	42	15	40	90	25	23	603	Fayette	NE	Fayette	42	51	1	91	48	57	1130				
Bloomfield 1 WNW	SE	Davis	40	45	35	92	26	22	812	Forest City 2 NNE	NC	Winnebago	43	17	4	93	37	50	1276				
Boone	C	Boone	42	2	30	93	53	26	1035	Fort Dodge 5 NNW	C	Webster	42	35	1	94	12	2	1140				
Brighton	SE	Washington	41	10	33	91	49	6	609	Fort Madison	SE	Lee	40	37	16	91	19	34	530				
Britt	NC	Hancock	43	6	6	93	48	5	1240	Gilman	C	Marshall	41	52	41	92	46	43	1040				
Brooklyn	C	Poweshiek	41	44	22	92	26	24	910	Glenwood	SW	Mills	41	3	6	95	44	57	1060				
Burlington Airport	SE	Des Moines	40	46	51	91	7	9	692	Greenfield	SW	Adair	41	17	53	94	27	22	1330				
Carroll	WC	Carroll	42	3	54	94	51	0	1227	Grinnell 3 SW	C	Poweshiek	41	43	13	92	44	56	912				
Cascade	NE	Dubuque	42	17	56	90	59	54	870	Grundy Center	C	Grundy	42	21	53	92	45	34	1045				
Castana Exp. Farm	WC	Monona	42	3	48	95	50	11	1450	Guthrie Center	WC	Guthrie	41	40	7	94	29	50	1075				
Cedar Rapids Airport	EC	Linn	41	53	0	91	43	0	868	Guttenberg L & D 10	NE	Clayton	42	47	9	91	5	45	618				
Cedar Rapids #1	EC	Linn	42	3	0	91	35	17	810	Hampton	NC	Franklin	42	45	22	93	12	4	1230				
Centerville	SC	Appanoose	40	44	11	92	52	9	980	Harlan 1 ESE	WC	Shelby											
Chariton 1 E	SC	Lucas	41	0	59	93	16	45	940	Hastings 4 NE	SW	Mills	41	4	38	95	28	48	1050				
Charles City	NC	Floyd	43	3	37	92	40	18	993	Hawarden	NW	Sioux	43	0	11	96	29	6	1190				
Cherokee	NW	Cherokee	42	45	26	95	32	16	1180	Holly Springs 1 NW	WC	Woodbury	42	16	49	96	5	46	1100				
Clarinda	SW	Page	40	43	28	95	1	19	980	Holstein	WC	Ida	42	29	23	95	32	56	1370				
Clarion	NC	Wright	42	43	12	93	44	1	1156	Indianola 4 W	SC	Warren	41	21	56	93	38	53	942				
Clinton #1	EC	Clinton	41	47	41	90	15	50	594	Ionia 2 W	NE	Chickasaw	43	2	1	92	30	6	1019				
Clutier	C	Tama	42	4	48	92	24	18	900	Iowa City	EC	Johnson	41	36	33	91	30	18	640				
Coggon	EC	Linn	42	16	45	91	31	30	903	Iowa City Airport	EC	Johnson	41	37	58	91	32	35	668				
Cresco 1 NE	NE	Howard	43	23	22	92	5	38	1255	Iowa Falls	C	Hardin	42	31	8	93	15	13	1051				
Creston 2 SW	SC	Union	41	2	14	94	23	39	1320	Jefferson 2 NW	WC	Greene											
Dakota City	NC	Humboldt	42	43	32	94	11	43	1110	Kanawha	NC	Hancock	42	55	52	93	47	36	1185				

JUNE 2016										JUNE 2016									
STATION INDEX										STATION INDEX									
STATION NAME	DIV	COUNTY	COORDINATES						ELEV (FT)	STATION NAME	DIV	COUNTY	COORDINATES						ELEV (FT)
			LATITUDE			LONGITUDE							LATITUDE			LONGITUDE			
			DEG	MIN	SEC	DEG	MIN	SEC					DEG	MIN	SEC	DEG	MIN	SEC	
Keokuk L & D 19	SE	Lee	40	23	48	91	22	30	527	Postville	NE	Allamakee	43	5	24	91	33	29	1165
Keosauqua	SE	Van Buren	40	43	39	91	58	6	592	Primghar	NW	O' Brien	43	5	11	95	37	45	1520
Knoxville	SC	Marion	41	19	29	93	6	3	915	Randolph	SW	Fremont	40	52	28	95	34	0	980
Lake Mills	NC	Winnebago	43	25	4	93	32	5	1260	Rathbun Dam	SC	Appanoose	40	49	30	92	53	33	965
Lamoni	SC	Decatur	40	37	24	93	57	3	1128	Red Oak	SW	Montgomery	41	0	13	95	14	31	1040
Lamoni Airport	SC	Decatur	40	37	50	93	54	3	1135	Remsen #2	NW	Plymouth	42	48	37	95	58	30	1330
Le Claire L & D 14	EC	Scott	41	34	29	90	24	2	577	Rock Rapids	NW	Lyon	43	25	48	96	10	7	1347
Le Mars	NW	Plymouth	42	46	54	96	8	45	1320	Rock Valley	NW	Sioux	43	12	16	96	18	22	1246
Little Sioux 2 NW	WC	Harrison	41	49	35	96	3	2	1025	Rockwell City	WC	Calhoun	42	23	49	94	37	45	1224
Logan	WC	Harrison	41	38	17	95	47	18	1030	Sac City	WC	Sac	42	25	10	94	58	34	1210
Lorimor	SC	Union	41	7	29	94	3	5	1230	Saint Ansgar	NC	Mitchell	43	22	54	92	55	24	1139
Lowden	EC	Cedar	41	51	23	90	55	48	715	Salem 1 S	SE	Henry	40	50	8	91	37	20	650
Manchester #2	NE	Delaware	42	28	24	91	27	6	990	Sanborn	NW	O' Brien	43	10	45	95	39	37	1551
Mapleton #2	WC	Monona	42	9	43	95	47	1	1200	Sheldon	NW	O' Brien	43	10	51	95	51	10	1420
Maquoketa 4 W	EC	Jackson	42	2	58	90	44	56	782	Shenandoah	SW	Page	40	46	2	95	22	48	975
Marshalltown	C	Marshall	42	3	53	92	55	28	871	Sibley	NW	Osceola	43	24	17	95	44	54	1529
Marshalltown Airport	C	Marshall	42	6	38	92	54	58	974	Sidney 1 SSE	SW	Fremont	40	44	10	95	38	35	1140
Mason City	NC	Cerro Gordo	43	9	47	93	11	43	1105	Sigourney	SE	Keokuk	41	20	11	92	12	16	800
Mason City Airport	NC	Cerro Gordo	43	9	16	93	19	37	1225	Sioux Center 2 SE	NW	Sioux	43	3	21	96	9	9	1360
Moline Airport		Rock Island,IL	41	27	55	90	31	24	592	Sioux City Airport	WC	Woodbury	42	23	29	96	22	45	1095
Montezuma 1 W	C	Poweshiek	41	35	1	92	32	59	965	Sioux Falls		Minnehaha,SD	43	34	40	96	45	14	1428
Monticello	EC	Jones	42	14	28	91	10	24	820	Sioux Rapids 4 E	NW	Buena Vista	42	53	35	95	3	55	1420
Mount Ayr	SC	Ringgold	40	42	19	94	14	34	1180	Spener Airport	NW	Clay	43	9	52	95	12	6	1338
Mount Pleasant 1 SSW	SE	Henry	40	56	55	91	33	53	730	Spencer 1 N	NW	Clay	43	9	55	95	8	48	1326
Muscatine	EC	Muscatine	41	24	27	91	4	22	549	Spirit Lake 4 W	NW	Dickinson	43	25	53	95	10	56	1430
Muscatine 2 N	EC	Muscatine	41	28	17	91	3	47	680	Stanley 3 WSW	NE	Buchanan	42	38	0	91	51	48	1114
Nashua 2 SW	NC	Floyd	42	56	13	92	34	13	1059	Storm Lake	NW	Buena Vista	42	38	49	95	11	36	1442
New Hampton	NE	Chickasaw	43	2	43	92	18	44	1148	Strawberry Point	NE	Clayton	42	41	7	91	31	57	1200
Newton	C	Jasper	41	42	42	93	1	47	960	Swea City 4 W	NC	Kossuth	43	24	8	94	22	59	1239
Northwood	NC	Worth	43	26	19	93	13	31	1190	Swisher	EC	Johnson	41	50	59	91	40	35	790
Oakland	SW	Pottawattamie	41	18	16	95	23	4	1260	Toledo 3 N	C	Tama	42	2	8	92	34	50	949
Oelwein 1 E	NE	Fayette	42	40	48	91	52	30	1165	Tripoli	NE	Bremer	42	48	45	92	15	27	960
Omaha Eppley Airport		Douglas, NE	41	18	37	95	53	57	982	Underwood	SW	Pottawattamie	41	23	22	95	40	52	1080
Orange City	NW	Sioux	43	0	2	96	3	14	1380	Vinton	EC	Benton	42	10	13	92	0	28	850
Osage	NC	Mitchell	43	16	46	92	48	38	1170	Wapello	SE	Louisa	41	10	50	91	11	48	580
Osceola	SC	Clarke	41	1	10	93	45	1	1028	Washington	SE	Washington	41	16	57	91	42	28	687
Oskaloosa	SE	Mahaska	41	19	17	92	38	48	830	Washta	NW	Cherokee	42	34	26	95	43	48	1160
Ottumwa Airport	SE	Wapello	41	6	28	92	26	48	842	Waterloo Airport	NE	Black Hawk	42	33	16	92	24	4	868
Pella 1 S	SC	Marion	41	22	34	92	55	13	780	Webster City	C	Hamilton	42	28	7	93	47	50	1170
Perry	C	Dallas	41	50	22	94	6	38	965	Williamsburg 1 E	EC	Iowa	41	39	54	91	59	52	810
Pocahontas	NW	Pocahontas	42	43	45	94	39	41	1212	Winterset 1 S	SC	Madison	41	18	22	94	1	6	1104
										Zearing	C	Story	42	10	1	93	18	35	1116

# REFERENCE NOTES

## DEFINITIONS

**STATION NAMES:** Name of the city or locality. Figures and letters following the station name indicate the distance and direction from the post office or town community center.

**NORMALS:** The average of the meteorological element over the period from 1981 to 2010. Normals are calculated by the National Climatic Data Center and are revised once every 10 years. The precipitation and snowfall normals are strictly an average of the values recorded during the 1981-2010 period. However, temperature and degree day normals may have been adjusted to better correspond to the current (as of 2010) temperature measurement practice and thus may vary slightly from the average of the original 30-year values.

**DEGREE DAYS:** One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature [average of the daily maximum and minimum air temperature] is BELOW (ABOVE) 65°F. Degree days are used to provide a measure of the effect of temperature upon energy consumption for heating or cooling of homes or buildings. The greater the heating (cooling) degree day total, the greater the amount of energy needed to heat (cool) your home or building.

**PRECIPITATION:** Values shown in hundredths of an inch are water equivalent totals, i.e., total of liquid (rain) and melted frozen (snow, sleet, hail) precipitation. The snowfall data tables include the unmelted depth of snow and sleet in tenths of an inch. The depth of snow on the ground (SN ON GROUND) refers to the depth of all snow or ice (new or old). This 'Snow on Ground' value is the depth of snow on the ground at the time of the precipitation observation at all stations *except*: Burlington, Davenport, Des Moines, Dubuque, Mason City, Moline, Omaha, Ottumwa, Sioux City and Sioux Falls Airports where the snow depth is measured at 6 a.m. CST while the new snowfall is that for the 24 hour period ending at midnight. Daily precipitation and snowfall amounts are for the 24 hours ending at the time of observation (given in the 'OBS TIME' column). An asterisk in the daily precipitation table indicates that the rain gage was not read that day. A multi-day precipitation total is included in the amount immediately following the asterisks.

**TEMPERATURE:** The daily maximum (MAX) and minimum (MIN) temperatures are recorded for the 24 hours ending at the time of observation. The significance of the time of observation in interpreting these data is discussed in the preceding paragraph.

**TIME OF OBSERVATION:** At most locations measurements of temperature and precipitation are made only once daily at the same hour of the day. This time is referred to as the 'Time of Observation' and is given in the 'OBS TIME' column of the data tables. All observations, unless otherwise noted, are for the 24 hour period ending at the time of observation. Note that in most cases the resulting data are not for calendar day (i.e., midnight-to-midnight) periods and further that the temperature observations may be made at a different time than the precipitation observation at the same station. See the PRECIPITATION paragraph in this section for a further explanation of the significance of the time of observation. All times are expressed on a 24-hour clock (i.e., 7 a.m. = 7; 5 p.m. = 17; midnight = 24, etc.).

## SYMBOLS USED IN THE DAILY AND MONTHLY DATA TABLES.

'    ' Underlined data in the daily temperature, precipitation and snowfall tables indicates that the data in question has been estimated. Estimated data are provided when the original measurements are not available or are of suspect accuracy.

*ITALICS.* Data given in italics in the daily precipitation or snowfall tables indicate that the date on which the precipitation was reported has been changed from what was given on the original reports.

'+' A plus sign in the monthly summarized data tables indicates that the temperature or precipitation extreme given also occurred on one of more earlier dates during the month.

**BLANK ENTRIES:** Blank entries in the monthly summarized data table indicates that no data are available. Blank entries in the daily precipitation and snowfall data tables indicates that no precipitation was recorded. M = missing, no data recorded.

## ABBREVIATIONS:

TMP DEP NOR:	Temperature departure from the 1981-2010 normal.
EXT MAX:	Extreme maximum temperature for the month and the day on which it was measured.
EXT MIN:	Extreme minimum temperature for the month and the day on which it was measured.
MAX 90+:	Number of days with maximum temperatures which were greater than or equal to 90°F.
MAX 32-:	Number of days with maximum temperatures which were less than or equal to 32°F.
MIN 32-:	Number of days with minimum temperatures which were less than or equal to 32°F.
MIN 0°:	Number of days with minimum temperatures which were less than or equal to 0°F.
15/16 SEAS:	2015-2016 season (July 1, 2015 through the end of the published month).
NOR SEAS:	Normal number of degree days through the end of the published month.
DEP NORM:	Monthly precipitation total departure from 1981-2010 normal.
EXT DAY:	Extreme one-day precipitation amount and the day on which it occurred.
.01+:	Number of days with precipitation of 0.01 inch or greater.
.10+:	Number of days with precipitation of 0.10 inch or greater.
1.00+:	Number of days with precipitation of 1.00 inch or greater.
MAX ON GRD:	Maximum depth of accumulated snow on the ground (inches) and the day on which it was measured.
OBS TIME:	Observation Time: The time (24-hour clock) at which the daily temperature and/or precipitation measurement is made (7 = 7 a.m.; 17 = 5 p.m.; 24 = midnight).
DIV:	Climate Division: NW = northwest, NC = north central, etc.
LAT:	Latitude in degrees and minutes north.
LON:	Longitude in degrees and minutes west.
T:	Trace: < 0.005" of precipitation; < 0.05" snowfall or <0.5" snow on ground.

